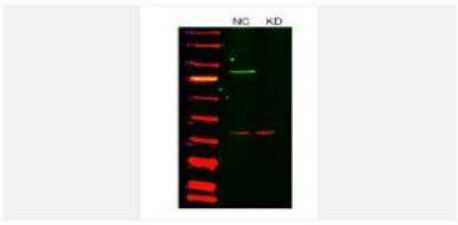
PRODUCT DATA SHEET

HIF-1α Polyclonal Antibody

Catalog No.	IPB0025
Reactivity	Human; Mouse; Rat
Applications	IF/ICC; WB; IHC-p; IP; ELISA
Dilution	IF: 1:50-200 WB: 1:500-1:2000 IP: 1:50 IHC: 1:50-1:200 ELISA: 1:40000
Gene Name	HIF1A
Protein Name	Hypoxia-inducible factor 1-alpha
Human Gene Id	3091
Swiss-Prot	Q16665
Formulation	Liquid in PBS containing 50% glycerol, 05% BSA and 002% sodium azide
Source	Rabbit
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Concentration	1 mg/ml
Storage&Stability	-20°C/1 year
Subcellular Location	Cytoplasm Nucleus Nucleus speckle Colocalizes with HIF3A in the nucleus and speckles (By similarity) Cytoplasmic in normoxia, nuclear translocation in response to hypoxia (PubMed:9822602)
MW	92670
Background	This gene encodes the alpha subunit of transcription factor hypoxia-inducible factor-1 (HIF-1), which is a heterodimer composed of an alpha and a beta subunit HIF-1 functions as a master regulator of cellular and systemic homeostatic response to hypoxia by activating transcription of many genes, including those involved in energy metabolism, angiogenesis, apoptosis, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia HIF-1 thus plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease Alternatively spliced transcript variants encoding different isoforms have been identified for this gene

Products Images:



Western blot analysis of lysates from 1)Hela cell , 2)Hela cells knockdown by siRNA (F:GCCACAUUCACGUAUAUGATT,R:UCAUAUACGUGAAUGUGGCTT), (Green) primary antibody was diluted at 1:1000, 4°over night, Dylight 800 secondary antibody(Immunoway:RS23920)was diluted at 1:10000, 37° 1hour. (Red) GAPDH Monoclonal Antibody(587) (Immunoway:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody(Immunoway:RS23710)was diluted at 1:10000, 37° 1hour.

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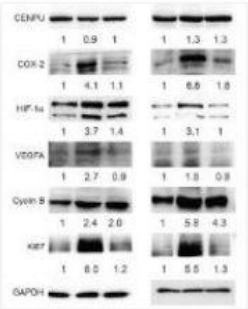
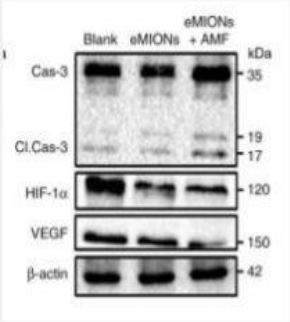
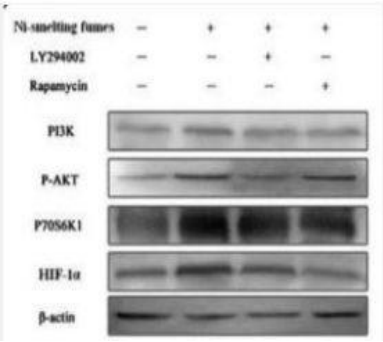


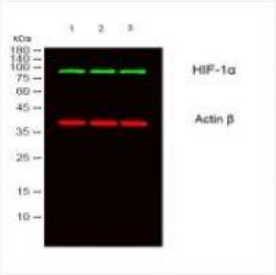
Zhao, Shaorong et al. "Deciphering the performance of polo-like kinase 1 in triple-negative breast cancer progression according to the centromere protein U-phosphorylation pathway." American journal of cancer research vol. 11,5 2142-2158. 15 May. 2021



Zhang, Y., Wang, X., Chu, C. et al. Genetically engineered magnetic nanocages for cancer magneto-catalytic theranostics. Nat Commun 11, 5421 (2020).



Han, Dan, et al. "Nickel-smelting fumes increased the expression of HIF-1α through PI3K/ERK pathway in NIH/3T3 cells." Journal of occupational health 58.5 (2016): 413-424.



Western blot analysis of lysates from 1) Hela, 2) 293, 3) MOUSE-BRAIN cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.

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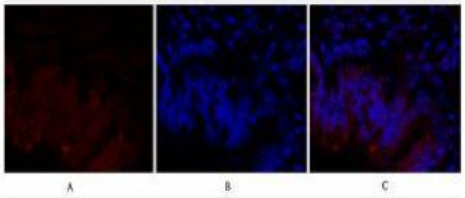
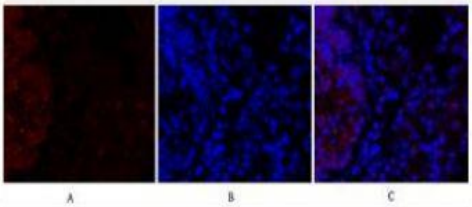


Immunofluorescence analysis of rat-lung tissue. 1,HIF-1α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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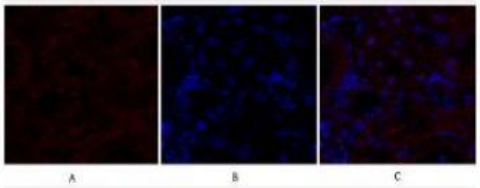
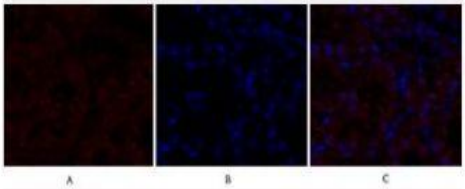


Immunofluorescence analysis of rat-kidney tissue. 1,HIF-1α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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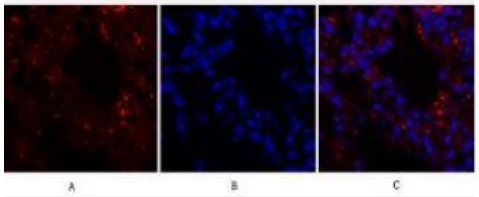
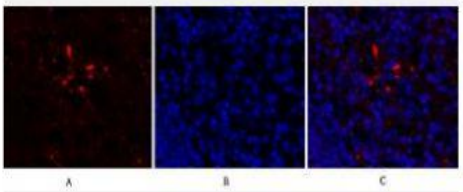
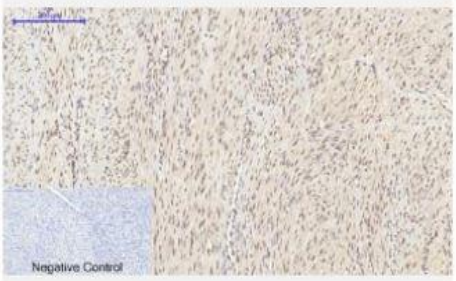


Immunofluorescence analysis of mouse-lung tissue. 1,HIF-1α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of mouse-lung tissue. 1,HIF-1α Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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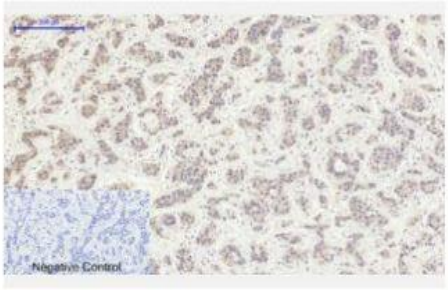
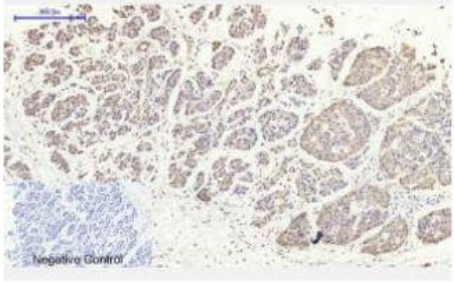
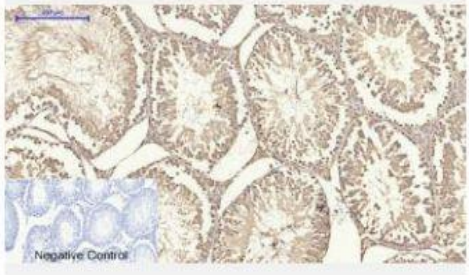


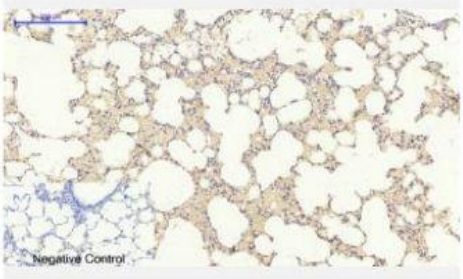
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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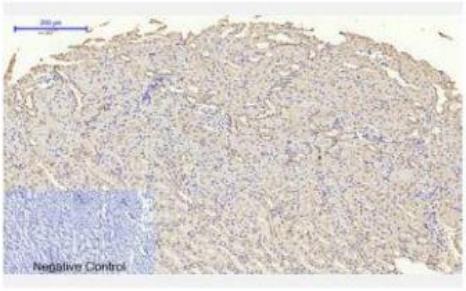
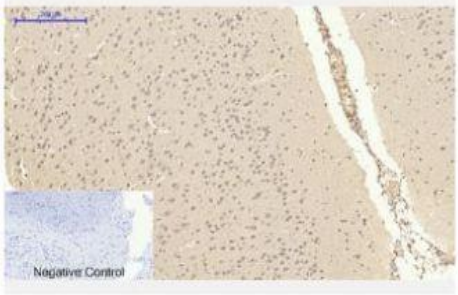
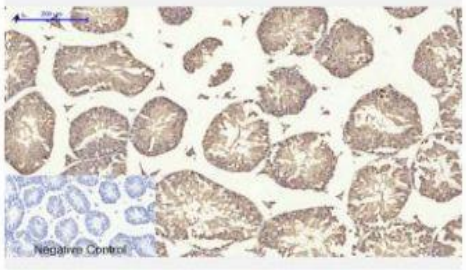


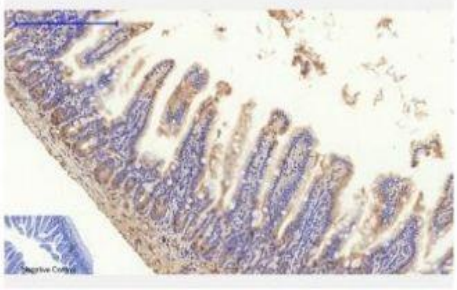
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-brain tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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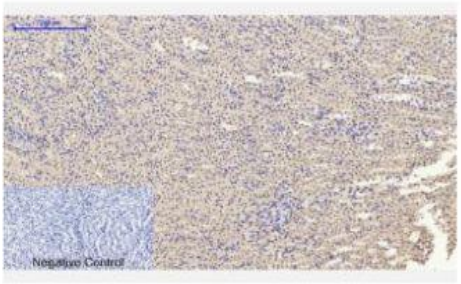
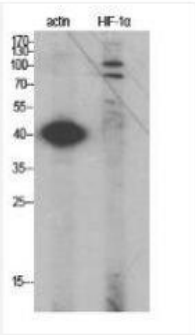
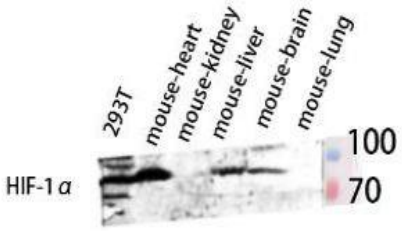


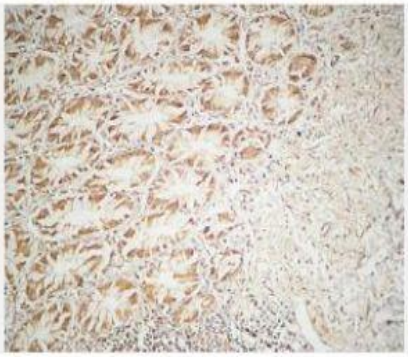
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,HIF-1α Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of various cells using HIF-1α Polyclonal Antibody diluted at 1:2000



Western blot analysis of 293T MOUSE-BRAIN MOUSE-SPLEEN MOUSE-HEART lysis using HIF-1α antibody. Antibody was diluted at 1:2000



Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

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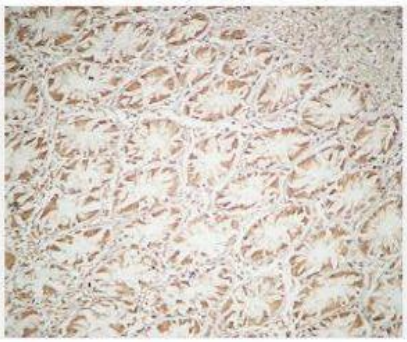
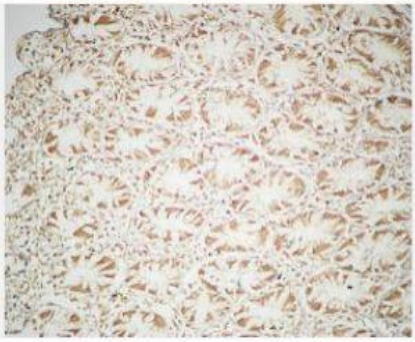
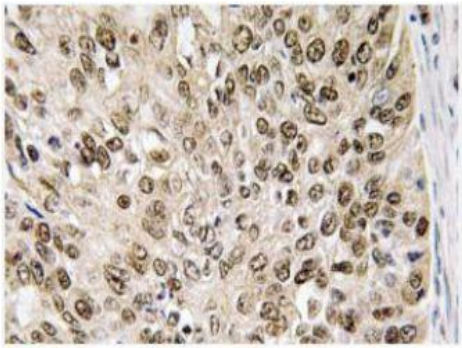


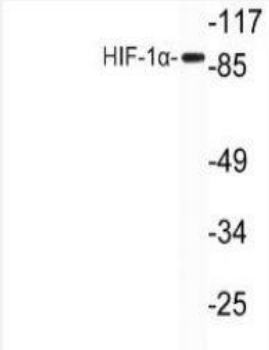
Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemistry analysis of HIF-1α antibody in paraffin-embedded human brain tissue.



Western blot analysis of lysate from LOVO cells, using HIF-1α antibody.

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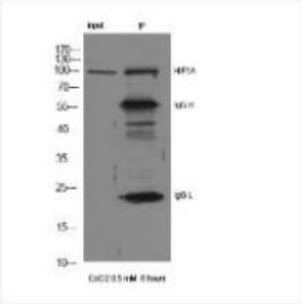

1) Input: Hela Lysate 2) IP product: IP dilute 1: 200 Hela treated with 0.05mM CoCl2 for 6 hours Western blot analysis: primary antibody : 1:1000 Secondary antibody: Goat anti-Mouse IgG(RS0002), 1: 5000