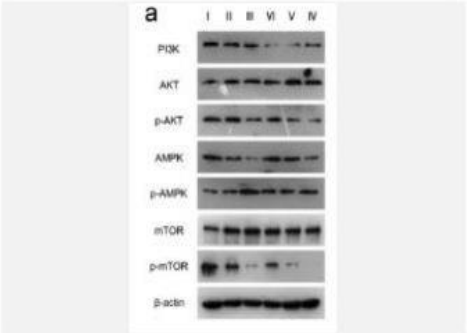
PRODUCT DATA SHEET

AMPKα1:2 Polyclonal Antibody

Catalog No.	IPB0067
Reactivity	Human; Mouse; Rat; Monkey
Applications	WB; IHC-p; ELISA
Dilution	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA: 1:40000
Gene Name	AAPK1:AAPK2
Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1/2
Human Gene Id	5562:5563
Swiss-Prot	Q13131:P54646
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 In response to stress, recruited by p53:TP53 to specific promoters
MW	62808/62320
Background	The protein encoded by this gene belongs to the ser:thr protein kinase family It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK) AMPK is a cellular energy sensor conserved in all eukaryotic cells The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP:ATP ratio AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways Alternatively spliced transcript variants encoding distinct isoforms have been observed

Products Images:



Kang, Min, et al. "Autophagy was activated against the damages of placentas caused by nano-copper oral exposure." Ecotoxicology and Environmental Safety 220 (2021): 112364.

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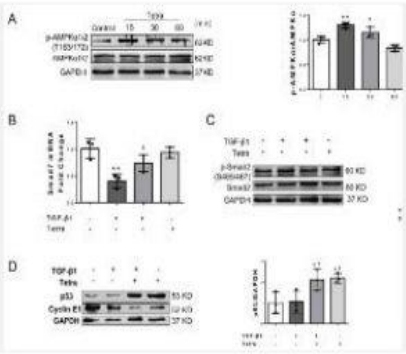
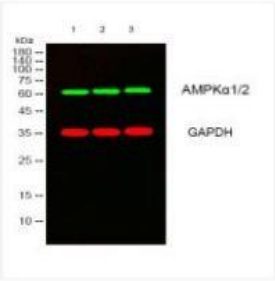
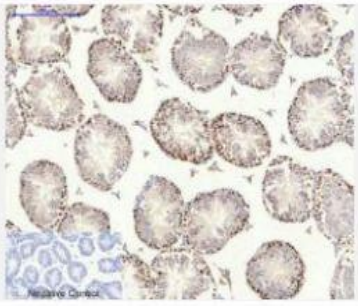


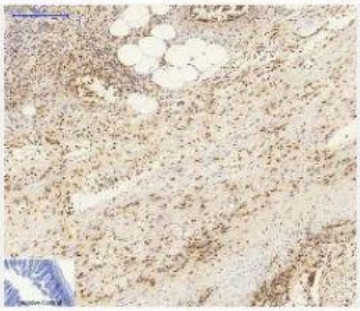
Gao, L., Wang, Ly., Liu, Zq. et al. TNAP inhibition attenuates cardiac fibrosis induced by myocardial infarction through deactivating TGF-β1/Smads and activating P53 signaling pathways. Cell Death Dis 11, 44 (2020)



Western blot analysis of lysates from 1) K562 , 2) COS7 , 3) KB cells, (Green) primary antibody was diluted at 1:1000, 4°over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) GAPDH Monoclonal Antibody(2B8) (cat:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37° 1hour.



Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,AMPKα1/2 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,AMPKα1/2 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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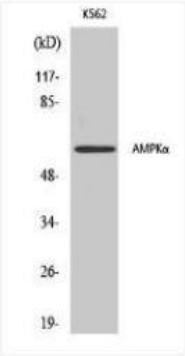
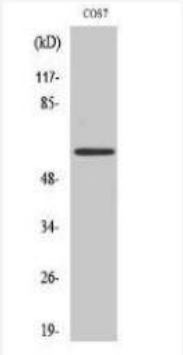
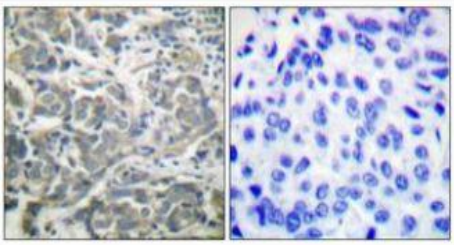


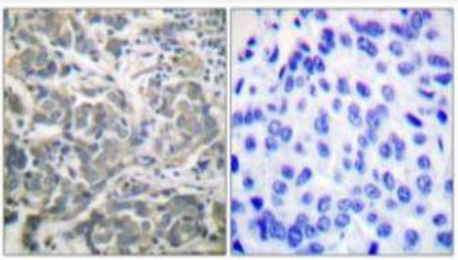
Western Blot analysis of various cells using AMPKα1/2 Polyclonal Antibody diluted at 1:500



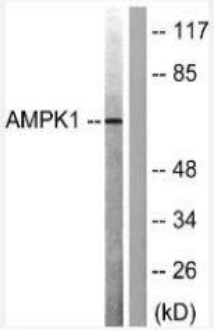
Western Blot analysis of COS7 cells using AMPKα1/2 Polyclonal Antibody diluted at 1:500



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using AMPK alpha Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COS7 cells, treated with Adriamycin 0.5ng/ml 24h, using AMPK alpha Antibody. The lane on the right is blocked with the synthesized peptide.