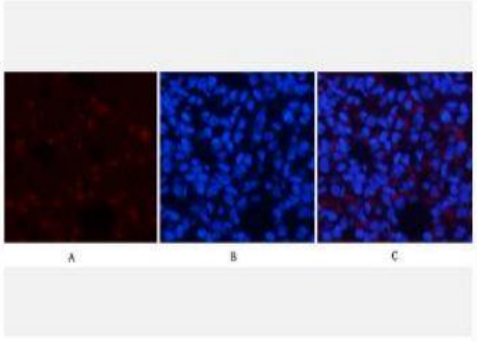
PRODUCT DATA SHEET

AMPKα1 Polyclonal Antibody

Catalog No.	IPB0185
Reactivity	Human; Mouse; Rat
Applications	WB; IHC-p; IF/ICC; ELISA
Dilution	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200 ELISA: 1:10000
Gene Name	PRKAA1
Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-1
Human Gene Id	5562
Swiss-Prot	Q13131
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
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:



Immunofluorescence analysis of rat-lung tissue. 1,AMPKα1 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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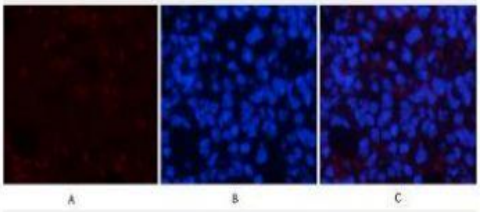

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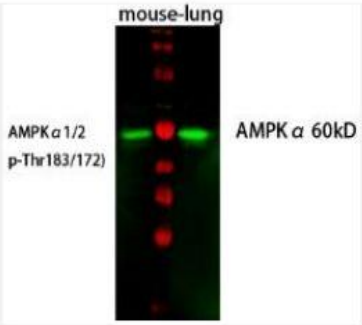
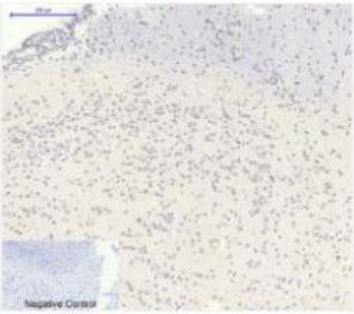
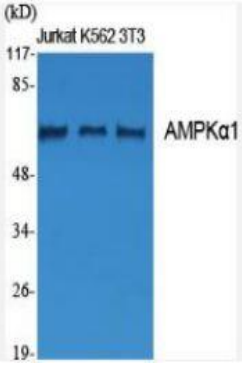


Western Blot analysis of mouse-lung cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by Minute™ Plasma Membrane Protein Isolation and Cell Fractionation Kit(SM-005, Inventbiotech,MN,USA).



Immunohistochemical analysis of paraffin-embedded Rat-brain tissue. 1,AMPKα1 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 AMPKα1 Polyclonal Antibody diluted at 1:1000

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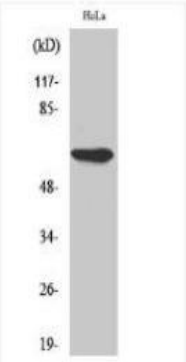
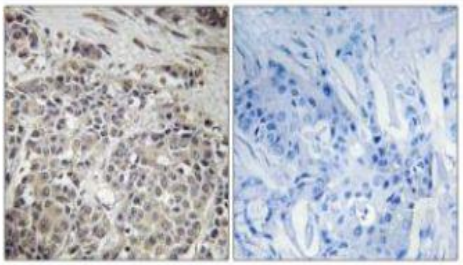
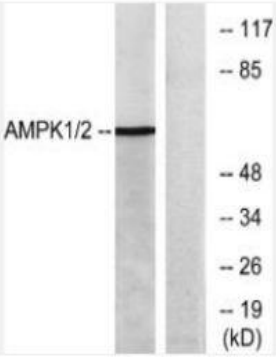


Western Blot analysis of HeLa cells using AMPKα1 Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using AMPK1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT29 cells, using AMPK1 Antibody. The lane on the right is blocked with the synthesized peptide.