LIMK-2 (Phospho Thr505) Rabbit pAb

CatalogNo: YP0162 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 72kD (Calculated)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized phospho-peptide around the phosphorylation site of human LIMK-2 (phospho Thr505)

Specificity Phospho-LIMK-2 (T505) Polyclonal Antibody detects endogenous levels of LIMK-2 protein only when phosphorylated at T505.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RYtVV

Target Information

Gene name LIMK2

Protein Name LIM domain kinase 2

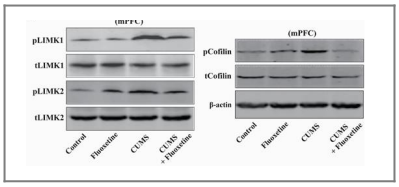
Organism	Gene ID	UniProt ID
Human	3985;	P53671;
Mouse	16886;	O54785;
Rat	29524;	P53670;

Cellular Localization Cytoplasm , cytoskeleton , spindle . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome .; [Isoform LIMK2a]: Cytoplasm . Nucleus .; [Isoform LIMK2b]: Cytoplasm . Cytoplasm , perinuclear region . Nucleus . Mainly present in the cytoplasm and is scarcely translocated to the nucleus. .

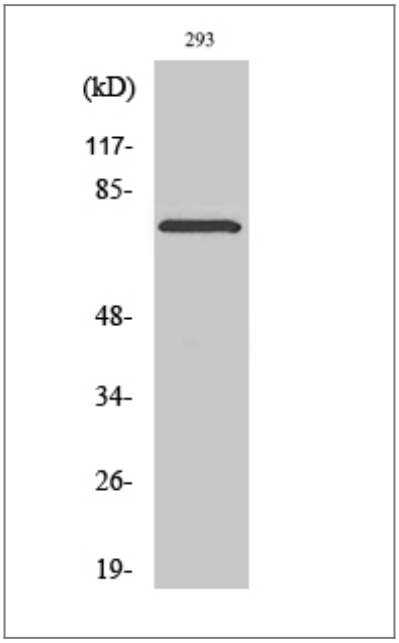
Tissue specificity Hepatoma ,Lung ,Ovary ,

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Function:Displays serine/threonine-specific phosphorylation of myelin basic protein and histone (MBP) in vitro. ,PTM:Phosphorylated on serine and/or threonine residues by ROCK1. ,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. ,similarity:Contains 1 PDZ (DHR) domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 2 LIM zinc-binding domains. ,subcellular location:Isoform LIMK2a is distributed in the cytoplasm and the nucleus. ,subcellular location:Isoform LIMK2b occurs mainly in the cytoplasm and is scarcely translocated to the nucleus. ,subunit:Binds ROCK1 and LKAP. Interacts with PARD3. Interacts with NISCH. ,tissue specificity:Highest expression in the placenta; moderate level in liver , lung , kidney , and pancreas. LIMK2a is found to be more abundant then LIMK2b in liver , colon , stomach , and spleen , while in brain , kidney , and placenta LIMK2b is the dominant form. In adult lung , both LIMK2a and LIMK2b is nearly equally observed. ,

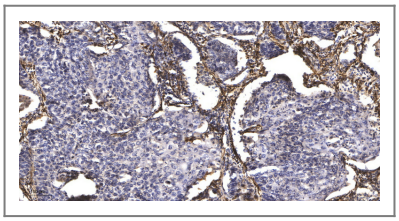
Validation Data



Gao, Ting-Ting, et al. "LIMK1/2 in the mPFC plays a role in chronic stress-induced depressive-like effects in mice." International Journal of Neuropsychopharmacology 23.12 (2020): 821-836.



Western Blot analysis of various cells using Phospho-LIMK-2 (T505) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200 (4℃ overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information:
LIMK-2 (Phospho Thr505) Rabbit pAb

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