LIMK-1 (Phospho Thr508) Rabbit pAb

CatalogNo: YP0161 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 72kD (Observed)

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	The antiserum was produced against synthesized peptide derived from human LIMK1 around the phosphorylation site of Thr508. AA range:471-520

Specificity	Phospho-LIMK-1 (T508) Polyclonal Antibody detects endogenous levels of LIMK-1 protein only when phosphorylated at T508.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

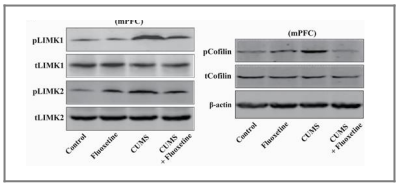
Target Information

Gene name	LIMK1
Protein Name	LIM domain kinase 1

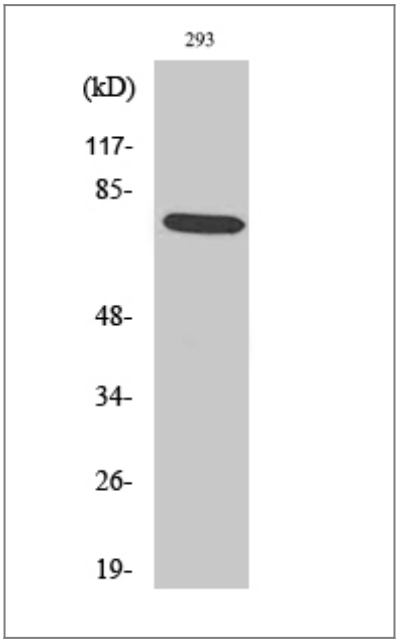
Organism	Gene ID	UniProt ID
Human	3984;	P53667;
Mouse	16885;	P53668;
Rat		P53669;

Cellular Localization	Cytoplasm . Nucleus . Cytoplasm , cytoskeleton . Cell projection , lamellipodium . Predominantly found in the cytoplasm. Localizes in the lamellipodium in a CDC42BPA , CDC42BPB and FAM89B/LRAP25-dependent manner. .
Tissue specificity	Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain , with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle.
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Disease:Haploinsufficiency of LIMK1 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in Williams-Beuren syndrome (WBS) , a rare developmental disorder. It is a contiguous gene deletion syndrome involving genes from chromosome band 7q11.23. ,Function:Protein kinase which regulates actin filament dynamics. Phosphorylates and inactivates the actin binding/depolymerizing factor cofilin , thereby stabilizing the actin cytoskeleton. Isoform 3 has a dominant negative effect on actin cytoskeletal changes. May be involved in brain development. ,PTM:Autophosphorylated. ,PTM:Phosphorylated on serine and/or threonine residues by ROCK1. May be dephosphorylated and inactivated by SSH1. ,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. ,subunit:Self-associates. The LIM domain interacts with the cytoplasmic domain of NRG1. Binds ROCK1. Interacts with SSH1. Interacts with NISCH. ,tissue specificity:Highest expression in both adult and fetal nervous system. Detected ubiquitously throughout the different regions of adult brain , with highest levels in the cerebral cortex. Expressed to a lesser extent in heart and skeletal muscle. ,

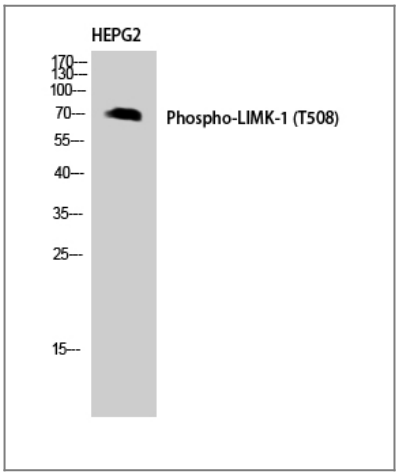
Validation Data



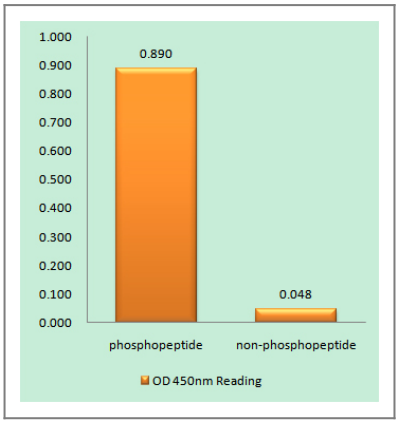
Gao, Ting-Ting, et al. "LIMK1/2 in the mPFC plays a role in chronic stress-induced depressive-like effects in mice." International Journal of Neuropsychopharmacology 23.12 (2020): 821-836.



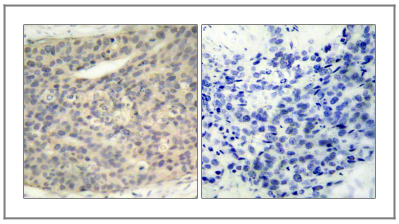
Western Blot analysis of 293 cells using Phospho-LIMK-1 (T508) Polyclonal Antibody diluted at 1:1000



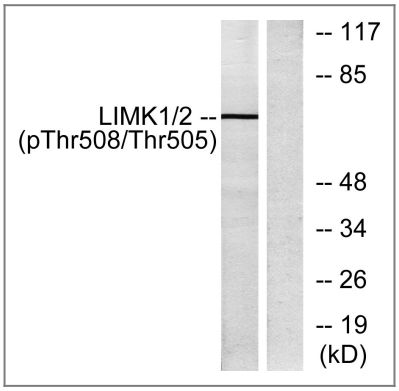
Western Blot analysis of HEPG2 using Phospho-LIMK-1 (T508) Polyclonal Antibody. Antibody was diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using LIMK1 (Phospho-Thr508) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using LIMK1 (Phospho-Thr508) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COLO205 cells, using LIMK1 (Phospho-Thr508) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
LIMK-1 (Phospho Thr508) Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.