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LIMK2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant LIMK2.
Catalog # AT2717a

Product Information

Application	WB, IF, E
Primary Accession	P53671
Other Accession	BC013051
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2H2-E11
Calculated MW	72232

Additional Information

Gene ID	3985
Other Names	LIM domain kinase 2, LIMK-2, LIMK2
Target/Specificity	LIMK2 (AAH13051.1, 1 a.a. ~ 686 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	LIMK2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

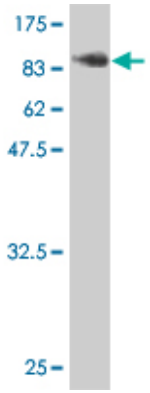
Background

There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encoded by this gene is phosphorylated and activated by ROCK, a downstream effector of Rho, and the encoded protein, in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. It is thought that this pathway contributes to Rho-induced reorganization of the actin cytoskeleton. At least three transcript variants encoding different isoforms have been found for this gene.

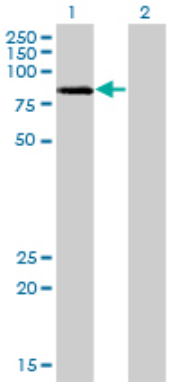
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.LIMK1 and LIMK2 are important for metastatic behavior and tumor cell-induced angiogenesis of pancreatic cancer cells. Vlecken DH, et al. Zebrafish, 2009 Dec. PMID 20047470.Identification of potentially damaging amino acid substitutions leading to human male infertility. Kuzmin A, et al. Biol Reprod, 2009 Aug. PMID 19369647.ROCK1 and LIMK2 interact in spread but not blebbing cancer cells. Shea KF, et al. PLoS One, 2008. PMID 18852895.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

Images

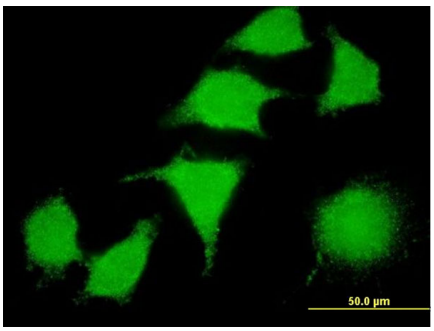


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (101.0899 KDa) .

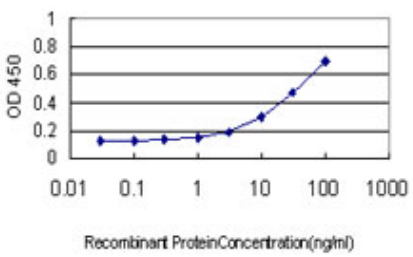


Western Blot analysis of LIMK2 expression in transfected 293T cell line by LIMK2 monoclonal antibody (M01), clone 2H2-E11.

Lane 1: LIMK2 transfected lysate(72.232 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to LIMK2 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged LIMK2 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.