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Product datasheet for TA319157

LIM Kinase 1 (LIMK1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:8,000 - 1:36,000, WB: 1:500 - 1:2,000, IF: User Optimized
Reactivity:	Human, Chimpanzee, Orang-Utan
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 630-647 of human LIM kinase protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	LIM domain kinase 1
Database Link:	NP_001191355 Entrez Gene 3984 Human P53667
Synonyms:	LIMK; LIMK-1
Note:	LIM Kinase is also known as LIM-domain containing protein kinase, LIMK-1 and LIMK. 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. LIMK1 is likely to be a component of an intracellular signaling pathway and may be involved in brain development. LIMK1 hemizygosity is

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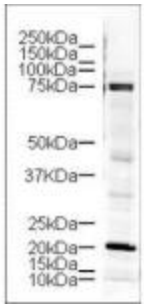
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

Product images:



WB using Anti-LIM Kinase antibody shows detection of a 73 kDa band corresponding to LIM kinase in lysates from mouse brain. Approximately 18 ug of lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-LIM kinase antibody. The doublet band at ~75 kDa may represent phosphorylated and non-phosphorylated forms of the protein. The identity of the strong lower molecular weight band at approximately 20 kDa is unknown.