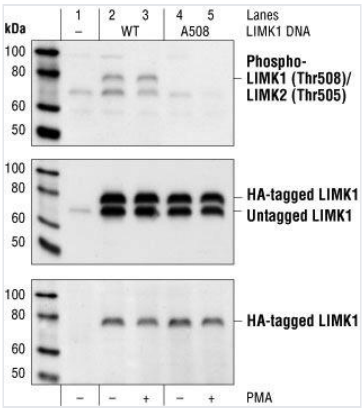
LIM Kinase 1 (LIMK1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LIM Kinase 1 (LIMK1), Polyclonal Antibody
Full Product Name	LIM Kinase 1, Phosphorylated (Thr508)/LIM Kinase 2 (Thr505)
Product Gene Name	anti-LIMK1 antibody
Product Synonym Names	Anti -LIM Kinase 1, Phosphorylated (Thr508)/LIM Kinase 2 (Thr505)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 0.1mg/ml BSA, 50% glycerol. No preservative added. Also available without BSA, glycerol. See L2212-05A.
Purity/Purification	Affinity Purified Purified by Protein A and immunoaffinity chromatography.
Specificity	Detects overexpressed LIMK1 and LIMK2 only when phosphorylated at threonine 508 or 505. Species Crossreactivity: Human, mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Chromosome Location	Chromosome: X; NC_004354.3 (12478418..12486226, complement). Location: 11B2-11B2
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Thr508 of human LIMK1 (KLH coupled).
Product Categories/Family for anti-LIMK1 antibody	Antibodies; Abs to Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-LIMK1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-LIMK1 antibody	Suitable for use in Western Blot and Immunoprecipitation. Dilution: Western Blot: 1:1000 Immunoprecipitation: 1:25
Related Product Information for anti-LIMK1 antibody	LIM kinases (LIMK1 and LIMK2) are serine/ threonine kinases that have two zinc finger motifs, known as LIM motifs, in their N-terminal regulatory domain (1). LIM kinases are involved in actin cytoskeletal regulation from Rho-family GTPases, PAKs and ROCK (2,3). PAK1 and ROCK phosphorylate LIMK1 or LIMK2 at conserved threonines 508 or 505 in the activation loop, which increases the activity of the kinases (3-5). Activated LIM kinases inhibit the actin depolymerization activity of cofilin by phosphorylation at the N-terminal serine 3 residue of cofilin (6,7).
Other Notes	Small volumes of anti-LIMK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LIMK1 purchase	MBS628143 is an antibody targeting LIMK1. Also known as LIM Kinase 1, Phosphorylated (Thr508)/LIM Kinase 2 (Thr505). Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-LIMK1 antibody
Western Blot analysis of extracts from COS cells untransfected (lane 1), transfected with Wild-type LIMK1 (lanes 2 and 3) or with LIMK1 T508A mutant (lanes 4 and 5), using Phospho-LIMK1 (Thr508)/LIMK2 (Thr505) Antibody (top), control LIMK1 (middle) or HA-Tag (262K) Monoclonal Antibody (bottom). Cells were either untreated (lanes 1, 2 and 4) or treated with PMA (lanes 3 and 5).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIMK1. It may not necessarily be applicable to this product.

NCBI GI #	281360760
NCBI GeneID	32207
NCBI Accession #	NP_001162733.1
GenBank Nucleotide #	NM_001169262.1
NCBI Official Full Name	LIM-kinase1, isoform E
NCBI Official Synonym Full Names	LIM-kinase1
NCBI Official Symbol	LIMK1
NCBI Official Synonym Symbols	CG1848; D-Limk; D-LIMK1; dLIMK; Dlimk; DLIMK; dLIMK1; DLIMK1; DmelCG1848; LIM-kinase 1; limk; Limk; LIMK
Protein Family	LIM domain kinase
NCBI Protein Information	CG1848 gene product from transcript CG1848-RC; LIM-kinase1, isoform C; CG1848-PC; LIMK1-PC; Lim kinase; LIM Kinase1; LIM-DOMAIN KINASE; LIM-kinase 1; LIM domain protein kinase; Lim-kinase; LIM-kinase1, isoform D; CG1848-PD; LIMK1-PD; LIM-kinase1, isoform A; CG1848-PA; LIMK1-PA; LIM-kinase1, isoform F; CG1848-PF; LIMK1-PF; LIM-kinase1, isoform E; CG1848-PE; LIMK1-PE
Research Articles on LIMK1	**1.** Rac may signal through Pak and LIMK to result in uniform phosphorylation of cofilin in all the outer border cells.
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