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Datasheet

LIMK1 (phospho T508) polyclonal antibody

Catalog Number: PAB7928

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic phosphopeptide of LIMK1.

Immunogen: Synthetic phosphopeptide corresponding to residues surrounding T508 of human LIMK1.

Host: Rabbit

Reactivity: Human,Mouse,Rat

Applications: ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This sequence is conserved in rat and mouse LIMK1, and has high homology to Thr-505 in human LIMK2.

Form: Liquid

Recommend Usage: ELISA (1:2000)
Western Blot (1:500)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3984

Gene Symbol: LIMK1

Gene Alias: LIMK

Gene Summary: 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 implicated in the impaired visuospatial constructive cognition of Williams syndrome. [provided by RefSeq]

References:

1. MAPKAPK-2-mediated LIM-kinase activation is critical for VEGF-induced actin remodeling and cell migration. Kobayashi M, Nishita M, Mishima T, Ohashi K, Mizuno K. EMBO J. 2006 Feb 22;25(4):713-26. Epub 2006 Feb 2.
2. Activation of LIM-kinase by Pak1 couples Rac/Cdc42 GTPase signalling to actin cytoskeletal dynamics. Edwards DC, Sanders LC, Bokoch GM, Gill GN. Nat Cell Biol. 1999 Sep;1(5):253-9.
3. Identification and characterization of a novel family of serine/threonine kinases containing two N-terminal LIM motifs. Okano I, Hiraoka J, Otera H, Nunoue K, Ohashi K, Iwashita S, Hirai M, Mizuno K. J Biol Chem. 1995 Dec 29;270(52):31321-30.