LIMK1/LIMK2 (Human) Cell-Based ELISA Kit

Catalog # KA2967 Size 1 Kit

Specification

Product Description	LIMK1/LIMK2 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of LIMK1/LIMK2 expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — LIMK1

Entrez GeneID	3984
Protein Accession#	P53667 (Gene ID : 3984);P53671 (Gene ID : 3985)
Gene Name	LIMK1
Gene Alias	LIMK
Gene Description	LIM domain kinase 1

Omim ID	601329
Gene Ontology	Hyperlink
Gene Summary	There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they c ontain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Althou gh zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protei n-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique co mbination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is likely to b e a component of an intracellular signaling pathway and may be involved in brain development. LI MK1 hemizygosity is implicated in the impaired visuospatial constructive cognition of Williams sy ndrome. [provided by RefSeq
Other Designations	LIM motif-containing protein kinase|OTTHUMP00000025066

Gene Info — LIMK2

Entrez GeneID	3985
Protein Accession#	P53667 (Gene ID : 3984);P53671 (Gene ID : 3985)
Gene Name	LIMK2
Gene Alias	-
Gene Description	LIM domain kinase 2
Omim ID	601988
Gene Ontology	Hyperlink
Gene Summary	There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they c ontain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Althou gh zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protei n-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique co mbination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. The protein encode d 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 tho ught 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. [provided by R efSeq
Other Designations	-

Pathway

- Axon guidance

- Axon guidance
- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton

Disease

- Azoospermia
- Brain Ischemia
- Cerebral Hemorrhage
- Cleft Lip
- Cleft Palate
- Genetic Predisposition to Disease
- Infertility
- Intracranial Aneurysm
- Kidney Failure
- Metabolic Syndrome X
- Oligospermia
- Renal Insufficiency
- Stroke
- Tobacco Use Disorder
- Werner syndrome