

LAIR1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70871
Synonyms:	Leukocyte-associated immunoglobulin-like receptor 1; LAIR-1; mLAIR-1; CD305; Lair1
Species:	Mouse
Source:	HEK293
Accession:	Q8BG84 (Q22-Y141)
Gene ID:	52855
Molecular Weight:	21-35 kDa

PROPERTIES
AA Sequence
Appearance
Formulation
Funda ta súa La sua l
Endotoxin Level
Reconsititution
Storage & Stability
Shinning
Sillbhill

DESCRIPTION

Background	The LAIR1 protein operates as an inhibitory receptor, constitutively exerting a negative regulatory influence on the cytolytic
	function of natural killer (NK) cells, B-cells, and T-cells. Upon activation through tyrosine phosphorylation, LAIR1 recruits
	and activates phosphatases PTPN6 and PTPN11, leading to downstream inhibitory effects. Notably, it diminishes the
	increase in intracellular calcium triggered by B-cell receptor ligation. Beyond its role with SH2-containing phosphatases,
	LAIR1 independently modulates cytokine production in CD4+ T-cells, down-regulating IL2 and IFNG while inducing the
	secretion of transforming growth factor beta. It further regulates IgG and IgE production in B-cells, as well as the secretion of
	IL8, IL10, and TNF. LAIR1's impact extends to inhibiting proliferation, inducing apoptosis in myeloid leukemia cell lines,
	preventing nuclear translocation of NF-kappa-B p65 subunit/RELA, and inhibiting the phosphorylation of I-kappa-B
	alpha/CHUK in these cells. Moreover, it hinders the differentiation of peripheral blood precursors into dendritic cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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