Human LAIR1, N-Twin Strep, C-His, Flag Tag Protein HA210566



Product name:	Human LAIR1, N-Twin Strep, C-His, Flag Tag									
Species reactivity:	Human									
Bio-Activity:	Testing in progress.									
Protein construction description:	A DNA sequence encoding the human LAIR1 protein (Q6GTX8) (His 187-His 287) was expressed with a Twin strep tag at the N-terminus and both His, Flag tag at the C-terminus.									
Background:	Functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of natural killer (NK) cells, B-cells and T-cells. Activation by Tyr phosphorylation results in recruitment and activation of the phosphatases PTPN6 and PTPN11. It also reduces the increase of intracellular calcium evoked by B-cell receptor ligation. May also play its inhibitory role independently of SH2-containing phosphatases. Modulates cytokine production in CD4+ T-cells, down-regulating IL2 and IFNG production while inducing secretion of transforming growth factor beta. Down-regulates also IgG and IgE production in B-cells as well as IL8, IL10 and TNF secretion. Inhibits proliferation and induces apoptosis in myeloid leukemia cell lines as well as prevents nuclear translocation of NF-kappa-B p65 subunit/RELA and phosphorylation of I-kappa-B alpha/CHUK in these cells. Inhibits the differentiation of peripheral blood precursors towards dendritic cells.									
Purity:	>95% as determined by SDS-PAGE.									
Endotoxin:	Less than 1.0 EU per μ g by the LAL method.									
Fragment region:	LAIR1 (187-287)									
Source:	E.coli									
Accession:	Q6GTX8									
Predicted molecular mass:	17.8 kD									
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.									
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.									
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at - 20° C to - 80° C It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.									

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images



Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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