10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LIR-1 Polyclonal Antibody

Catalog # AP73779

Product Information

Application	WB, IHC-P
Primary Accession	Q8NHL6
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70819

Additional Information

Gene ID	10859
Other Names	LILRB1; ILT2; LIR1; MIR7; Leukocyte immunoglobulin-like receptor subfamily B member 1; LIR-1; Leukocyte immunoglobulin-like receptor 1; CD85 antigen-like family member J; Immunoglobulin-like transcript 2; ILT-2; Monocyte/macrophage immunoglobulin-like receptor 7; MIR-7; CD85j
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

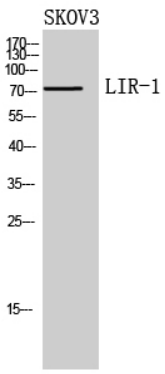
Name	LILRB1 {ECO:0000303|PubMed:20600445, ECO:0000312|HGNC:HGNC:6605}
Function	Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles (PubMed:16455647, PubMed:28636952). Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response. Engagement of LILRB1 present on natural killer cells or T-cells by class I MHC molecules protects the target cells from lysis. Interaction with HLA-B or HLA-E leads to inhibition of FCER1A signaling and serotonin release. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:11907092, PubMed:9285411, PubMed:9842885). Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (PubMed:16455647). Upon interaction with peptide-bound HLA-G-B2M complex, triggers secretion of growth-promoting factors by decidual NK cells (PubMed:19304799, PubMed:29262349). Reprograms B cells toward an immune suppressive phenotype (PubMed:24453251).

Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in B cells, monocytes and various dendritic cell (DC) subsets including myeloid, plasmacytoid and tolerogenic DCs (at protein level) (PubMed:20448110, PubMed:24453251, PubMed:9285411, PubMed:9842885). Expressed in decidual macrophages (at protein level) (PubMed:19304799). Expressed in decidual NK cells (at protein level) (PubMed:29262349).

Background

Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles (PubMed:16455647, PubMed:28636952). Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response. Engagement of LILRB1 present on natural killer cells or T-cells by class I MHC molecules protects the target cells from lysis. Interaction with HLA-B or HLA-E leads to inhibition of FCER1A signaling and serotonin release. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:11907092, PubMed:9285411, PubMed:9842885). Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (PubMed:16455647). Upon interaction with peptide-bound HLA-G-B2M complex, triggers secretion of growth-promoting factors by decidual NK cells (PubMed:29262349, PubMed:19304799). Reprograms B cells toward an immune suppressive phenotype (PubMed:24453251).

Images



Western Blot analysis of SKOV3 cells using LIR-1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.