

LAIR1 / CD305 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS15371**Specification**

LAIR1 / CD305 Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	Q6GTX8
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	31kDa KDa

LAIR1 / CD305 Antibody (Internal) - Additional Information**Gene ID** 3903**Other Names**

Leukocyte-associated immunoglobulin-like receptor 1, LAIR-1, hLAIR1, CD305, LAIR1, CD305

Target/Specificity

Human LAIR1 / LAIR-1. This antibody is expected to recognize both isoforms (NP_002278.1; NP_068352.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

LAIR1 / CD305 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

LAIR1 / CD305 Antibody (Internal) - Protein Information**Name** LAIR1**Synonyms** CD305**Function**

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.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells. Highly expressed in naive T-cells and B-cells but no expression on germinal center B-cells. Abnormally low expression in naive B-cells from HIV-1 infected patients. Very low expression in NK cells from a patient with chronic active Epstein-Barr virus infection.

LAIR1 / CD305 Antibody (Internal) - Protocols

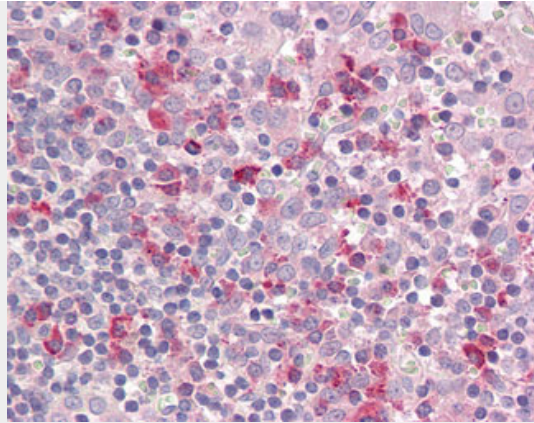
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LAIR1 / CD305 Antibody (Internal) - Images



LAIR1 antibody (2 ug/ml) staining of Human Lymph Node lysate (35 ug protein/ml in RIPA buffer).



Anti-CD305 / LAIR-1 antibody IHC of human tonsil.

LAIR1 / CD305 Antibody (Internal) - Background

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LAIR1 / CD305 Antibody (Internal) - References

Meyaard L.,et al.Immunity 7:283-290(1997).
Meyaard L.,et al.J. Immunol. 162:5800-5804(1999).
Xu M.-J.,et al.J. Biol. Chem. 275:17440-17446(2000).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Poggi A.,et al.Eur. J. Immunol. 28:2086-2091(1998).