

LAIR1 Antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI15301

Product Information

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|--------------------------|---|
| Application | WB |
| Primary Accession | Q6GTX8 |
| Other Accession | NM_021706 , NP_068352 |
| Reactivity | Human |
| Predicted | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 31469 |

Additional Information

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|-------------------------------------|--|
| Gene ID | 3903 |
| Alias Symbol | CD305, LAIR-1 |
| Other Names | Leukocyte-associated immunoglobulin-like receptor 1, LAIR-1, hLAIR1, CD305, LAIR1, CD305 |
| Format | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-LAIR1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions | LAIR1 Antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|---|
| 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. Also |

down-regulates 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

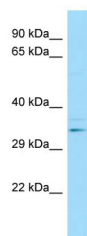
Tissue Location

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.

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/DBJ databases.
Poggi A.,et al.Eur. J. Immunol. 28:2086-2091(1998).

Images



WB Suggested Anti-LAIR1 Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Liver

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