

**LAIR1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13784c****Specification**

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**LAIR1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q6GTX8</a>
Other Accession	<a href="#">NP_002278.1</a> , <a href="#">NP_068352.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31469
Antigen Region	177-206

**LAIR1 Antibody (Center) - Additional Information****Gene ID** 3903**Other Names**

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

**Target/Specificity**

This LAIR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 177-206 amino acids from the Central region of human LAIR1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**LAIR1 Antibody (Center) - 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**

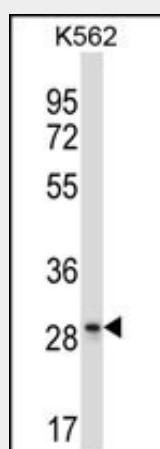
Expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells. Highly expressed in naive T-cells and B-cells but no expression on germinal center B-cells. Abnormally low expression in naive B-cells from HIV-1 infected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

### **LAIR1 Antibody (Center) - 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 Antibody (Center) - Images**



LAIR1 Antibody (Center) (Cat. #AP13784c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the LAIR1 antibody detected the LAIR1 protein (arrow).

**LAIR1 Antibody (Center) - Background**

The protein encoded by this gene is an inhibitory receptor found on peripheral mononuclear cells, including NK cells, T cells, and B cells. Inhibitory receptors regulate the immune response to prevent lysis of cells recognized as self. The gene is a member of both the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family. The gene maps to a region of 19q13.4 called the leukocyte receptor cluster, which contains at least 29 genes encoding leukocyte-expressed receptors of the immunoglobulin superfamily.

**LAIR1 Antibody (Center) - References**

Davila, S., et al. Genes Immun. 11(3):232-238(2010)  
Brondijk, T.H., et al. Blood 115(7):1364-1373(2010)  
Tang, X., et al. J. Immunol. 182(9):5446-5452(2009)  
Lebbink, R.J., et al. Matrix Biol. 28(4):202-210(2009)  
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