

**LAIR1 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3116a****Specification**

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**LAIR1 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">Q6GTX8</a>
Other Accession	<a href="#">NP_002278.1</a> , <a href="#">NP_068352.1</a> , <a href="#">3903</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	31469

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

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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**LAIR1 Antibody (internal region) - 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 (internal region) - 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 (internal region) - Images**



AF3116a (2 µg/ml) staining of Human Lymph Node lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **LAIR1 Antibody (internal region) - Background**

This antibody is expected to recognize both isoforms (NP\_002278.1; NP\_068352.1).

**LAIR1 Antibody (internal region) - References**

A single residue, arginine 65, is critical for the functional interaction of leukocyte-associated inhibitory receptor-1 with collagens. Tang X, Narayanan S, Peruzzi G, Apará A, Natarajan K, Margulies DH, Coligan JE, Borrego F, Journal of immunology (Baltimore, Md. : 1950) 2009 May 182 (9): 5446-52. PMID: 19380792