

# LAIR1 Polyclonal antibody

Catalog Number: 13297-1-AP

## Basic Information

**Catalog Number:**

13297-1-AP

**Size:**

200 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4021

**GenBank Accession Number:**

BC027899

**GeneID (NCBI):**

3903

**UNIPROT ID:**

Q6GTX8

**Full Name:**

leukocyte-associated  
immunoglobulin-like receptor 1

**Calculated MW:**

287 aa, 31 kDa

**Observed MW:**

40-50 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

IHC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : THP-1 cells,

IHC : human ovary cancer tissue,

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Background Information

Leukocyte-associated immunoglobulin-like receptor 1 (LAIR1) is a transmembrane glycoprotein with a single immunoglobulin-like domain and a cytoplasmic tail containing two immune receptor tyrosine-based inhibitory motifs (PMID: 9285412). LAIR1 is expressed on the majority of human PBMCs, including NK, T, B, monocytes, and dendritic cells, as well as the majority of thymocytes (PMID: 10229813). It functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of NK cells, B cells and T cells. LAIR1 is a collagen receptor (PMID: 16754721). Tumor-expressed collagens can modulate immune cell function through the inhibitory collagen receptor LAIR1 (PMID: 21955987).

## Storage

**Storage:**

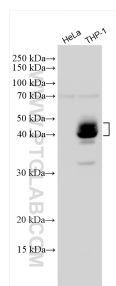
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

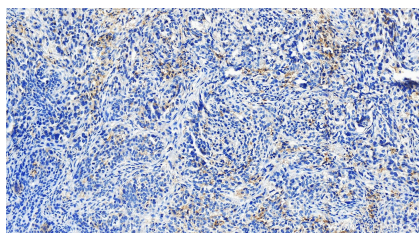
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



HeLa cells (LAIR1 negative) and THP-1 cells were subjected to SDS PAGE followed by western blot with 13297-1-AP (LAIR1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 13297-1-AP (LAIR1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).