

## CD305 Polyclonal Antibody

<b>Catalog No :</b>	YT5634
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	CD305
<b>Gene Name :</b>	LAIR1
<b>Protein Name :</b>	Leukocyte-associated immunoglobulin-like receptor 1
<b>Human Gene Id :</b>	3903
<b>Human Swiss Prot No :</b>	Q6GTX8
<b>Mouse Gene Id :</b>	52855
<b>Mouse Swiss Prot No :</b>	Q8BG84
<b>Rat Gene Id :</b>	574531
<b>Rat Swiss Prot No :</b>	P0C1X9
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human LAIR1. AA range:21-70
<b>Specificity :</b>	CD305 Polyclonal Antibody detects endogenous levels of CD305 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 32kD

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**Background :**

The protein encoded by this gene is an inhibitory receptor found on peripheral mononuclear cells, including natural killer 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. The encoded protein has been identified as an anchor for tyrosine phosphatase SHP-1, and may induce cell death in myeloid leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],

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**Function :**

developmental stage:Complete loss of expression when naive B-cells proliferates and differentiates into Ig-producing plasma cells under in vitro stimulation.,domain:ITIM (immunoreceptor tyrosine-based inhibitor motif) motif is a cytoplasmic motif present in 2 copies in the intracellular part of LAIR1. When phosphorylated, ITIM motif can bind the SH2 domain of several SH2-containing phosphatases, leading to down-regulation of cell activation.,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. Modul

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**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein .

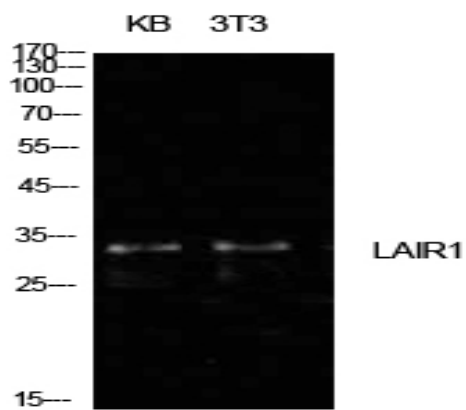
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**Expression :**

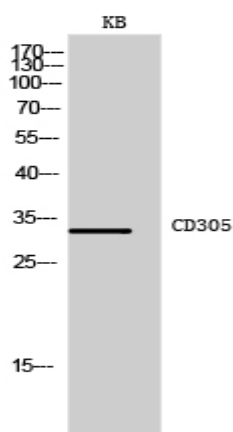
Expressed on the majority of peripheral mononuclear cells, including natural killer (NK) cells, T-cells, B-cells, monocytes, and dendritic cells. Highly expressed in naive T-cells and B-cells but no expression on germinal center B-cells. Abnormally low expression in naive B-cells from HIV-1 infected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

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## Products Images



Western Blot analysis of KB, NIH-3T3 cells using CD305 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of KB cells using CD305 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000