

# Product Datasheet

## LAIR1 Antibody (9.1C3) - Azide and BSA Free NBP2-47800-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-47800-0.1mg**

LAIR1 Antibody (9.1C3) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	9.1C3
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Target Molecular Weight</b>	40 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	3903
<b>Gene Symbol</b>	LAIR1
<b>Species</b>	Human
<b>Specificity/Sensitivity</b>	Recognizes a single protein of 40kDa, identified as the CD305 (LAIR1). It is an inhibitory receptor, 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. This MAb is expressed on CD34 positive hematopoietic progenitors. 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. LAIR1 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. This MAb is identical to LAIR-1, based on the fact that it not only precipitated a protein of 40kDa but it also binds specifically to LAIR-1 cDNA transfected COS7 cells as well as recognizes LAIR-1 fusion protein in ELISA. LAIR-1 expresses on hematopoietic progenitor, implicating its role in the regulation of hematopoiesis at early stage.
<b>Immunogen</b>	Human Lymphocytes and Large Granular Lymphocytes (LGL)
<b>Product Application Details</b>	
<b>Applications</b>	Flow Cytometry, CyTOF-ready, Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready
<b>Application Notes</b>	Hu-chromosome location: 19q13.4 Inhibits NK & ALK Cell Mediated Cytolysis Use Ab without BSA & Azide; nhibits TNF-alpha secretion of NK cells Use Ab without BSA & Azide; nduces Colony Formation of Human Bone Marrow Cells Use Ab without BSA & Azide



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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