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LILRA2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10464c

Specification

LILRA2 Antibody (Center) - Product Information

Application	**WB, FC,E**
Primary Accession	Q8N149
Other Accession	NP_006857.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52966**
Antigen Region	**55-81**

LILRA2 Antibody (Center) - Additional Information

Gene ID 11027

Other Names
Leukocyte immunoglobulin-like receptor subfamily A member 2, CD85 antigen-like family member H, Immunoglobulin-like transcript 1, ILT-1, Leukocyte immunoglobulin-like receptor 7, LIR-7, CD85h, LILRA2, ILT1, LIR7

Target/Specificity
This LILRA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-81 amino acids from the Central region of human LILRA2.

Dilution
WB~~1:1000
FC~~1:10~50
E~~Use at an assay dependent concentration.

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
LILRA2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

LILRA2 Antibody (Center) - Protein Information

Name LILRA2

Synonyms ILT1, LIR7

Function Part of the innate immune responses against microbial infection (PubMed:12529506, PubMed:27572839). Specifically recognizes a set of N-terminally truncated immunoglobulins that are produced via cleavage by proteases from a range of pathogenic bacteria and fungi, including L.pneumophila, M.hyorhinis, S.pneumoniae, S.aureus and C.albicans (PubMed:27572839). Recognizes epitopes that are in part in the variable region of the immunoglobulin light chains, but requires also the constant region for signaling (PubMed:27572839). Binds to a subset of cleaved IgM, IgG3 and IgG4 molecules, but does not bind cleaved IgA1 (PubMed:27572839). Binding of N-terminally truncated immunoglobulins mediates activation of neutrophils (PubMed:27572839). In monocytes, activation leads to the release of CSF2, CF3, IL6, CXCL8 and CCL3 and down-regulates responses to bacterial lipopolysaccharide (LPS), possibly via down-regulation of TLR4 expression and reduced signaling via TLR4 (PubMed:22479404). In eosinophils, activation by ligand binding leads to the release of RNASE2, IL4 and leukotriene C4 (PubMed:12529506). Does not bind class I MHC antigens (PubMed:19230061).

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Detected on the surface of all peripheral blood monocytes, neutrophils, basophils and eosinophils (at protein level) (PubMed:12529506, PubMed:22479404). Expression levels are very low or not detectable on monocytes, T-cells, B-cells, dendritic cells and natural killer (NK) cells (PubMed:9548455)

LILRA2 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 Cytomety
- Cell Culture

LILRA2 Antibody (Center) - Images

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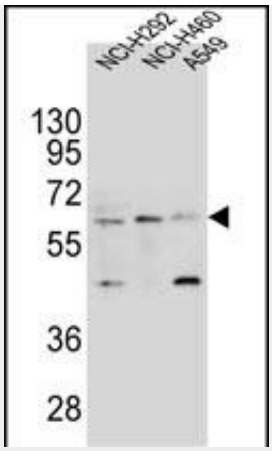
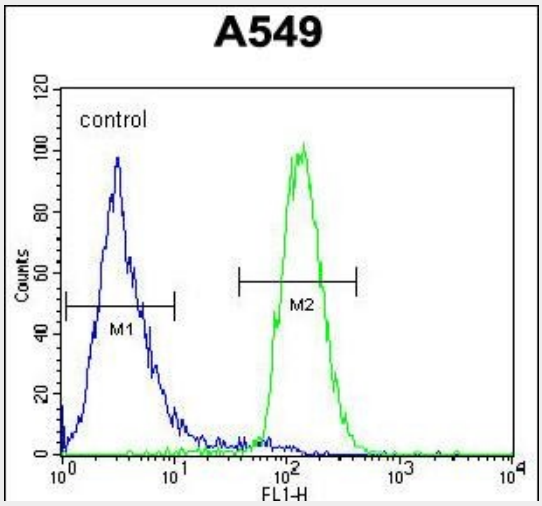


LILRA2 Antibody (Center) (Cat. #AP10464c) western blot analysis in NCI-H292,NCI-H460 and A549 cell line lysates (35ug/lane).This demonstrates the LILRA2 antibody detected the LILRA2 protein (arrow).



LILRA2 Antibody (Center) (Cat. #AP10464c) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

LILRA2 Antibody (Center) - Background

Leukocyte Ig-like receptors (LIRs) are a family of immunoreceptors expressed predominantly on monocytes and B cells and at lower levels on dendritic cells and natural killer (NK) cells. All LIRs in subfamily B have an inhibitory function (see, e.g., LILRB1, MIM 604811). LIRs in subfamily A, with short cytoplasmic domains lacking an immunoreceptor tyrosine-based inhibitory motif (ITIM) and with transmembrane regions containing a charged arginine residue, may initiate stimulatory cascades. One member of subfamily A (LILRA3; MIM 604818) lacks a transmembrane region and is presumed to be a soluble receptor.

LILRA2 Antibody (Center) - References

Mosbruger, T.L., et al. J. Infect. Dis. 201(9):1371-1380(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Jones, D.C., et al. Eur. J. Immunol. 39(11):3195-3206(2009)

Chen, Y., et al. J. Mol. Biol. 386(3):841-853(2009)
Mamegano, K., et al. Genes Immun. 9(3):214-223(2008)