

**LILRA2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10464c****Specification**

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**LILRA2 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [Q8N149](#)  
Other Accession [NP\\_006857.1](#), [NP\\_001124389.1](#)

**LILRA2 Antibody (Center) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LILRA2 Antibody (Center) Blocking Peptide - Protein Information**

**Name** LILRA2

**Synonyms** ILT1, LIR7

**Function**

Part of the innate immune responses against microbial infection (PubMed:<a href="http://www.uniprot.org/citations/12529506" target="\_blank">12529506</a>, PubMed:<a href="http://www.uniprot.org/citations/27572839" target="\_blank">27572839</a>). 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:<a href="http://www.uniprot.org/citations/27572839" target="\_blank">27572839</a>). Recognizes epitopes that are in part in the variable region of the immunoglobulin light chains, but requires also the constant region for signaling (PubMed:<a href="http://www.uniprot.org/citations/27572839" target="\_blank">27572839</a>). Binds to a subset of cleaved IgM, IgG3 and IgG4 molecules, but does not bind cleaved IgA1 (PubMed:<a href="http://www.uniprot.org/citations/27572839" target="\_blank">27572839</a>). Binding of N-terminally truncated immunoglobulins mediates activation of neutrophils (PubMed:<a

<http://www.uniprot.org/citations/27572839> target="\_blank">27572839</a>). 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:<a href="http://www.uniprot.org/citations/22479404" target="\_blank">22479404</a>). In eosinophils, activation by ligand binding leads to the release of RNASE2, IL4 and leukotriene C4 (PubMed:<a href="http://www.uniprot.org/citations/12529506" target="\_blank">12529506</a>). Does not bind class I MHC antigens (PubMed:<a href="http://www.uniprot.org/citations/19230061" target="\_blank">19230061</a>).

#### **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) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **LILRA2 Antibody (Center) Blocking Peptide - Images**

### **LILRA2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)