

**KIR2DS1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13902c****Specification**

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**KIR2DS1 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q14954](#)**KIR2DS1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 3806**Other Names**Killer cell immunoglobulin-like receptor 2DS1, CD158 antigen-like family member H, MHC class I  
NK cell receptor Eb6 Actl, CD158h, KIR2DS1, CD158H**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13902c was selected from the Center region of KIR2DS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**KIR2DS1 Antibody (Center) Blocking peptide - Protein Information****Name** KIR2DS1 ([HGNC:6333](#))**Synonyms** CD158H**Function**

Receptor on natural killer (NK) cells for some HLA-C alleles such as w6. Does not inhibit the activity of NK cells.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed by NK cells.

## **KIR2DS1 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **KIR2DS1 Antibody (Center) Blocking peptide - Images**

## **KIR2DS1 Antibody (Center) Blocking peptide - Background**

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several 'framework' genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response.

## **KIR2DS1 Antibody (Center) Blocking peptide - References**

Wauquier, N., et al. Immunogenetics 62 (11-12), 767-771 (2010) ; Jiao, Y.L., et al. J. Clin. Immunol. 30(6):840-844(2010) Zhu, B.F., et al. Hum. Immunol. 71(11):1116-1123(2010) Velickovic, M., et al. Tissue Antigens 76(4):325-330(2010) Gao, X., et al. Clin. Immunol. 137(1):139-146(2010)