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KIR2DS2 Antibody
Catalog # ASC11933

Specification

KIR2DS2 Antibody - Product Information

Application	**IF, IHC**
Primary Accession	P43631
Other Accession	NP_036444, 100132285
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 28, 33, 37 kDa** **Observed: 34, 42 kDa KDa**
Application Notes	**KIR2DS2 antibody can be used for detection of KIR2DS2 by Western blot at 1 - 2 µg/ml. For immunofluorescence start at 20 µg/mL.**

KIR2DS2 Antibody - Additional Information

Gene ID **100132285**

Target/Specificity
KIR2DS2 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human KIR2DS2.

The immunogen is located within the last 50 amino acids of KIR2DS2.

Reconstitution & Storage
KIR2DS2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
KIR2DS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KIR2DS2 Antibody - Protein Information

Name KIR2DS2 (HGNC:6334)

Synonyms CD158J, NKAT5

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

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

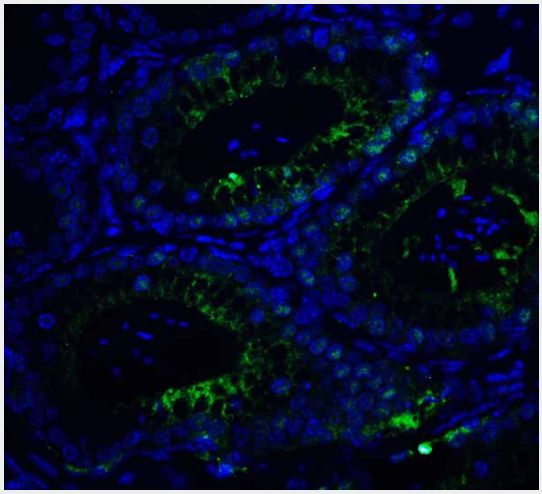
KIR2DS2 Antibody - Protocols

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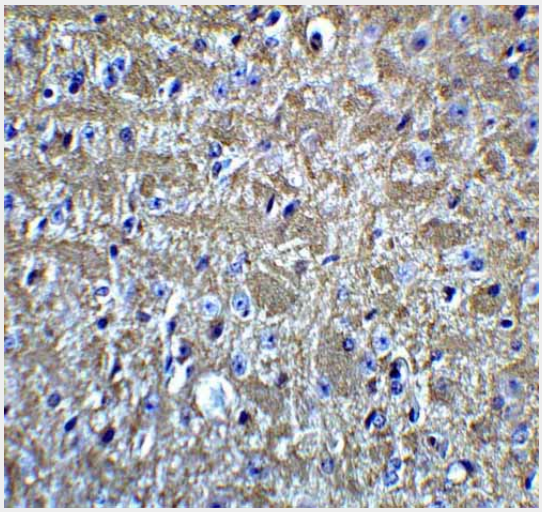
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KIR2DS2 Antibody - Images



Immunofluorescence of SMARCA4 in mouse testis tissue with SMARCA4 antibody at 20 µg/ml.



Immunohistochemistry of OLIG2 in mouse brain tissue with OLIG2 Antibodyat 5 µg/mL.

KIR2DS2 Antibody - Background

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells (1). The KIR proteins are classified by the number of extracellular immunoglobulin domains and by whether they have a long (L) or short (S) cytoplasmic domain (2,3). KIR proteins are thought to play an important role in regulation of the immune response (3). KIR2DS2 downregulates the cytotoxicity of NK cells upon recognition of specific class I

major histocompatibility complex (MHC) molecules on target cells and is a receptor on natural killer (NK) cells for HLA-C alleles (3,4).

KIR2DS2 Antibody - References

Colonna M and Samaridis J. Cloning of immunoglobulin-superfamily members associated with HLA-C and HLA-B recognition by human natural killer cells. Science 1995; 268:405-8.
Biassoni R, Cantoni C, Falco M, et al. The human leukocyte antigen (HLA)-C-specific "activatory" or "inhibitory" natural killer cell receptors display highly homologous extracellular domains but differ in their transmembrane and intracytoplasmic portions. J. Exp. Med. 1996; 183:645-50.
Wagtmann N, Biassoni R, Cantoni C, et al. Molecular clones of the p58 NK cell receptor reveal immunoglobulin-related molecules with diversity in both the extra- and intracellular domains. Immunity 1995; 2:439-49.
Moesta AK and Parham P. Diverse functionality among human NK cell receptors for the C1 epitope of HLA-C: KIR2DS2, KIR2DL2, and KIR2DL3. Front. Immunol. 2012; 3:336.