SANTA CRUZ BIOTECHNOLOGY, INC.

KIR2DL4 (2H6): sc-59278

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NKAT (NK-associated transcripts) gene products, known as killer immunoglobulin-like receptors or KIRs, downregulate the cytotoxicity of NK cells upon recognition of specific class I major histocompatibility complex (MHC) molecules on target cells. This family of receptors is characterized by an extracellular region with two to three immunoglobulin-superfamily domains and a cytoplasmic domain with an antigen receptor activation motif (ARAM). KIRs and other inhibitory receptors also possess a common cytoplasmic sequence (I/VxYxxL/V) known as an ITIM (immunoreceptor tyrosine-based inhibitory motif). The human inhibitory human killer cell immunoglobulin-like receptor 2DL4 (KIR2DL4), also referred to as 2DL4 or CD158d, triggers potent IFN-γ responses but weak cytotoxicity in resting NK cells because of the low stoichiometric association with γ.

REFERENCES

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3. Williams, F., et al. 2004. Investigation of killer cell immunoglobulin-like receptor gene diversity: I. KIR2DL4. Hum. Immunol. 65: 31-38.
4. Gedil, M.A., et al. 2005. Genomic characterization of KIR2DL4 in families and unrelated individuals reveals extensive diversity in exon and intron sequences including a common frameshift variation occurring in several alleles. Tissue Antigens 65: 402-418.
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7. Yan, W.H. and Fan, L.A. 2005. Residues Met 76 and Gln 79 in HLA-G α1 domain involve in KIR2DL4 recognition. Cell Res. 15: 176-182.
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SOURCE

KIR2DL4 (2H6) is a mouse monoclonal antibody raised against recombinant KIR2DL4 of human origin.

PRODUCT

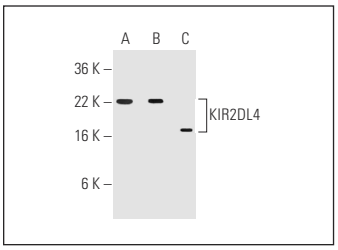
Each vial contains 50 µg IgG_{2b} in 500 µl of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

KIR2DL4 (2H6) is recommended for detection of KIR2DL1, KIR2DL3, KIR2DL4 and KIR2DS4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Molecular Weight of KIR2DL4: 42 kDa.

DATA



KIR2DL4 (2H6): sc-59278. Western blot analysis of recombinant human KIR2DL1 extracellular domain (**A**), KIR2DL3 extracellular domain (**B**) and KIR2DL4 extracellular domain (**C**).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.