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SM6033S Monoclonal Antibody to CD158a / KIR2DL1 - Purified

Alternate names: 1MHC class I NK cell receptor, CD158 antigen-like family member A, Killer cell immunoglobulin-like receptor 2DL, NKAT1, Natural killer-associated transcript 1, p58 natural killer cell receptor clones CL-42/47.11, p58.1 MHC class-I-specific NK receptor

Quantity: 50 µl

Concentration: 1.0 mg/ml

Background: The KIR family consists of transmembrane glycoproteins of the Ig superfamily expressed on human NK cells and a subset of human T cells which they are involved in recognition of either MHC class I molecules or unknown ligand on target cells and inhibit cytotoxic activities.

Uniprot ID: P43626

NCBI: NP_055033.2

GeneID: 3802

Host / Isotype: Mouse / IgG2a

Recommended Isotype Controls: AM03096PU-N

Clone: 2F9

Immunogen: Recombinant human KIR2DL1 (23-223 aa) purified from E. coli

Format:
State: Liquid purified Ig fraction
Purification: Protein-G affinity chromatography
Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol

Applications:
ELISA.
Immunoprecipitation.
Western blot (1:500).
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes human KIR2DL1. Other species not tested.

Cross reactivity:
KIR2DL1: +++
KIR2DL3: +
KIR2DS4: +
KIR2DL4: -
Species: Human
Other species not tested.

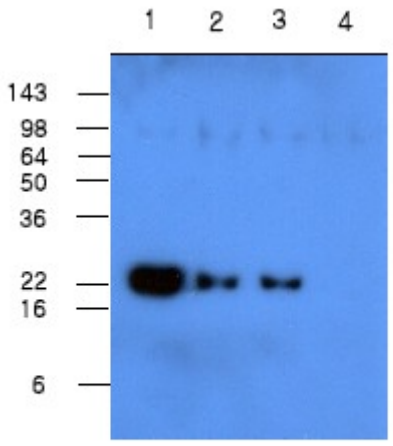
Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Shin JS, Shin EC, Kim J, Choi IH, Park JH, Kim SJ. Monoclonal antibodies with various reactivity to p58 killer inhibitory receptors. Hybridoma. 1999 Dec;18(6):521-7. PubMed PMID: 10626681.
2. Fan QR, Long EO, Wiley DC. Crystal structure of the human natural killer cell inhibitory receptor KIR2DL1-HLA-Cw4 complex. Nat Immunol. 2001 May;2(5):452-60. PubMed PMID: 11323700.

Pictures:

Western blot analysis: Recombinant Human protein KIR2DL1, KIR2DL3, KIR2DS4 and KIR2DL4 (each 50 ng per well) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with SM6033 anti-Human KIR2DL1 antibody (1/500). Proteins were visualized using a Goat anti-Mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1 : KIR2DL1 Lane 2 : KIR2DL3
Lane 3 : KIR2DS4 Lane 4 : KIR2DL4