

SM2036PT**Monoclonal Antibody to CD158 / KIR2D - Aff - Purified**

Alternate names:	CD158a, CD158b, CD158i, KI2DL1, KILLER CELL Immunoglobulin-Like Receptors, KIR2DL3, KIR2DS4
Quantity:	25 µg
Concentration:	1.0 mg/ml
Background:	KIR2D family members are cell surface glycoproteins with two Ig domains, which are expressed on natural killer cells and some T cells.
Host / Isotype:	Mouse / IgG1
Clone:	NKVFS1
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide
Applications:	Flow Cytometry: 1/50 - 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. ELISA. Immunoprecipitation. Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises KIR2D members of the killer cell immunoglobulin (Ig)-like receptor (KIR) family, CD158a, CD158b and P50.3 (CD158I). Clone NKVFS1 specifically recognises the long and short forms CD158a and CD158b (KIR2DL, KIR2DS1 and KIR2DS2 respectively) and also p50.3 (KIR2DS4). The clone is reported to have functional activity, activating NK cell cytotoxicity via KIR2DS and inhibiting via KIR2DL forms. We recommend the use of SM2036A for this purpose. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Spaggiari GM, Contini P, Carosio R, Arvigo M, Ghio M, Oddone D, et al. Soluble HLA class I molecules induce natural killer cell apoptosis through the engagement of CD8: evidence for a negative regulation exerted by members of the inhibitory receptor superfamily. <i>Blood</i> . 2002 Mar 1;99(5):1706-14. PubMed PMID: 11861287. 2. Spaggiari GM, Contini P, Dondero A, Carosio R, Puppo F, Indiveri F, et al. Soluble HLA class I induces NK cell apoptosis upon the engagement of killer-activating HLA class I receptors through FasL-Fas interaction. <i>Blood</i> . 2002 Dec 1;100(12):4098-107. Epub 2002 Jul 18. PubMed PMID: 12393468.

Pictures:

Staining of human peripheral blood lymphocytes with mouse anti-human KIR/KIR2D antibody Cat.-No. SM2036PS.

