

SM6021**Monoclonal Antibody to KIR2D (L1, L3, L4, S4) - Purified**

Alternate names:	CD158 antigen-like family member D, G9P, KIR103AS, Killer cell immunoglobulin-like receptor 2DL4, Killer cell inhibitory receptor 103AS, MHC class I NK cell receptor KIR103AS
Quantity:	0.1 ml
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:	Q99706
NCBI:	NP_001074239.1
GeneID:	3805
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12P, AM03110PU-N
Clone:	2H6
Immunogen:	Recombinant Human KIR2DL4 (44-202a) purified from <i>E. coli</i>
Format:	State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	ELISA. Western blot (1/500-1/1,000). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes KIR2DL1, KIR2DL3, KIR2DL4 and KIR2DS4, members of killer cell immunoglobulin-like receptor family. ELISA: KIR2DL1: ++ KIR2DL3: + KIR2DL4: +++ KIR2DS4: ++ Western blot (1/500-1/2,000): KIR2DL1: +++ KIR2DL3: +++ KIR2DL4: ++ KIR2DS4: ++ 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. Chwae YJ, Chang MJ, Park SM, Yoon H, Park HJ, Kim SJ, et al. Molecular mechanism of the activation-induced cell death inhibition mediated by a p70 inhibitory killer cell Ig-like receptor in Jurkat T cells. *J Immunol*. 2002 Oct 1;169(7):3726-35. PubMed PMID: 12244166.

Pictures:

Western blot analysis: Human recombinant protein KIR2DL1, KIR2DL3 and KIR2DL4 (each 20 ng per well) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with SM6021 anti-Human KIR2DL4 antibody (1/500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a ECL detection system. **Lane 1 :** Extracellular domain of KIR2DL1(23-223aa) **Lane 2 :** Extracellular domain of KIR2DL3(23-223aa) **Lane 3 :** Extracellular domain of KIR2DL4(44-202aa)

