

DESCRIPTION

Species Reactivity	Human
Specificity	Detects KIR2DS4/CD158i in Western blots. In flow cytometry, this antibody stains cells transfected with KIR2DS4/CD158i. Does not stain cells transfected with KIR2DL1, 2DL2, 2DL3, 2DL4, 2DL5, 2DS1, 2DS2, 3DL1, 3DL2, or 3DS1.
Source	Monoclonal Mouse IgG _{2A} Clone # 179315
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human KIR2DS4 Accession # P43632
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human KIR2DS4 under non-reducing conditions only
Flow Cytometry	2.5 µg/10 ⁶ cells	Human whole blood CD56 ⁺ natural killer cells
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

KIR2DS4 is an activating immunoglobulin-like receptor expressed on NK cells and some T cells. It has been implicated in the recognition of some HLA-C alleles (1). A deletion variant encoding a single domain secreted isoform of KIR2DS4 has also been described (2).

References:

1. Katz, G. *et al.* (2001) *J. Immunol.* **166**:7260.
2. Maxwell, L. *et al.* (2002) *Tissue Antigens* **60**:254.