

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fcγ RIIA and human Fcγ RIIB in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant mouse Fcγ RII.
Source	Monoclonal Mouse IgG _{2A} Clone # 190723
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Fcγ RIIB Ala46-Pro217 Accession # P31994
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 Fcγ RIIA/CD32a (Catalog # 1330-CD) Recombinant Human Fcγ RIIB/C (CD32b/c) (Catalog # 1875-CD) under non-reducing conditions only
Flow Cytometry	2.5 μg/10 ⁶ cells	Human peripheral blood monocytes and granulocytes
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

Fcγ RII, also known as CD32, is a group of three closely related proteins (Fcγ RIIA, Fcγ RIIB, Fcγ RIIC) that share greater than 94% amino acid identity in their extracellular domains. They function as transmembrane receptors for the Fc portion of IgG molecules. These proteins are expressed by various hematopoietic cells including monocytes, macrophages, neutrophils, NK, T cells, and B cells. The Fcγ RII proteins are involved in phagocytosis of immune complexes and modulation of antibody production by B cells.