Human PILR-β Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4189

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human PILR-β in direct ELISAs and Western blots. In Western blots, approximately 10% cross reactivity with recombinant human PILR-α is observed and less than 5% cross-reactivity with recombinant mouse (rm) PILR-β, rmPILR-α, and rmPILR-L is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PILR-β isoform 1 Gln20-Ala189 Accession # Q9UKJ0
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 as a 0.2 μm filtered solution in PBS.

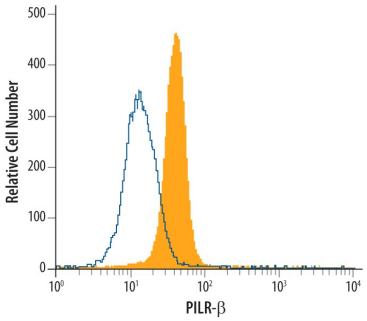
APPLICATIONS

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	0.1 µg/mL	Recombinant Human PILR-β
Flow Cytometry	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of PILR-β in Human Peripheral Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Sheep Anti-Human PILR-β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4189, filled histogram) or control antibody (Catalog # 5-001-A, open histogram), followed by NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # NL010).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.** ● 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

Paired immunoglobulin-like, type 2 receptor beta (PILR-β) is a type I transmembrane (TM) glycoprotein belonging to the Ig superfamily. It is the activating counterpart to the ITIM-bearing PILR-α inhibitory receptor. PILR-β is expressed in a wide variety of tissues including hematopoietic cells. Mature human PILR-β is a 208 amino acid (aa) protein with one V-type Ig-like extracellular domain, a truncated cytoplasmic tail, and positively-charged residues in its TM domain that interacts with ITAM-bearing adaptor molecules. Within the V-type Ig-like region in their ECD, human PILR-β and PILR-α share a 92% aa sequence identity. The aa sequence of mouse PILR-β ECD is only 43% identical to that of the human protein.

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