

DESCRIPTION

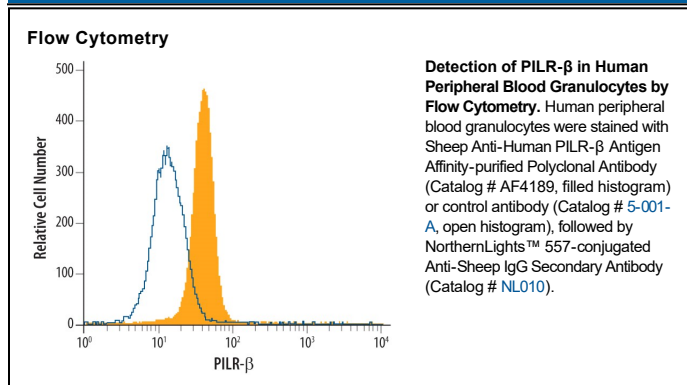
Species Reactivity	Human
Specificity	Detects recombinant human PILR-β in direct ELISAs and Western blots. In Western blots, approximately 10% cross reactivity with recombinant human PILR-α is observed and less than 5% cross-reactivity with recombinant mouse (rm) PILR-β, rmPILR-α, and rmPILR-L is observed.
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 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	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



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. <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

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.