

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects recombinant human PILR-β in direct ELISAs and Western blots.                                                                                                                                                                                                        |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human PILR-β isoform 1<br>Gln20-Ala189<br>Accession # Q9UKJ0                                                                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>CyTOF-ready</b>    | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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.

## PRODUCT SPECIFIC NOTICES

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