

PILR- α (I-12): sc-104615

BACKGROUND

PILR- α [paired immunoglobulin (Ig)-like type 2 receptor α], also known as FDF03, is a member of the paired Ig-like type 2 receptor family and is predominantly expressed in hemopoietic tissues but is also found in macrophages, monocytes, granulocytes and dendritic cells. Typically consisting of two highly related but functionally opposite (inhibiting and activating) receptors, paired receptors play an important role in the regulation of the immune system and in the recognition of the sialylated O-glycosylated ligand MIC2. PILR- α is the inhibitory component of the paired Ig-like type 2 receptor and PILR- β is the activating component. PILR- α contains an immune receptor tyrosine-based inhibitory motif (ITIM) which mediates the recruitment of a phosphatase for the inhibition of immune responses. Due to alternative splicing events, four isoforms exist for PILR- α . Isoforms 1 and 2 are single-pass type I membrane proteins and localize to the cell membrane, while isoforms 3 and 4 are secreted proteins.

REFERENCES

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4. Velten, F.W., et al. 2004. A gene signature of inhibitory MHC receptors identifies a BDCA3⁺ subset of IL-10-induced dendritic cells with reduced allostimulatory capacity *in vitro*. *Eur. J. Immunol.* 34: 2800-2811.
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7. Satoh, T., et al. 2008. PILR- α is a herpes simplex virus-1 entry coreceptor that associates with glycoprotein B. *Cell* 132: 935-944.
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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Pilra (mouse) mapping to 5 G2.

SOURCE

PILR- α (I-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of PILR- α of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-104615 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PILR- α (I-12) is recommended for detection of PILR- α of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PILR- α siRNA (m): sc-106411, PILR- α shRNA Plasmid (m): sc-106411-SH and PILR- α shRNA (m) Lentiviral Particles: sc-106411-V.

Molecular Weight of PILR- α : 44 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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 Guaranteed

Try **PILR- α / β (H-2): sc-390847**, our highly recommended monoclonal alternative to PILR- α (I-12).