Human PILR-α APC-conjugated Antibody
Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: FAB6484A
100 Tests

DESCRIPTION
Species Reactivity: Human
Specificity: Detects human PILR-α in direct ELISAs.
Source: Polyclonal Sheep IgG
Purification: Antigen Affinity-purified
Immunogen: Mouse myeloma cell line NS0-derived recombinant human PILR-α
Gln20-Thr196
Accession # Q9UKJ1
Conjugate: Allophycocyanin
Excitation Wavelength: 620-650 nm
Emission Wavelength: 660-670 nm
Formulation: Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*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.

Recommended Concentration
Sample
Flow Cytometry
10 µL/10^6 cells
See Below

DATA
Flow Cytometry
Detection of PILR-α in Human Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Sheep Anti-Human PILR-α APC-conjugated Antibody (Catalog # FAB6484A, filled histogram) or isotype control antibody (Catalog # IC016A, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE
Shipping: The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage: Protect from light. Do not freeze.

● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND
PILR-α (paired immunoglobulin-like, type 2 receptor alpha) is a 44-50 kDa type I transmembrane (TM) paired receptor glycoprotein that belongs to the Ig Superfamily. It is expressed by monocytes, macrophages, CD14*CD1a* DC and retinal pigment cells, and is known to bind to CD99 and PANP. PILR-α acts as a receptor for HSV and serves as a negative immunomodulator that contains an ITIM. Mature human PILR-α is 284 amino acids (aa) in length. It contains one V-type Ig-like domain in its extracellular region (aa 32-150), and two ITIMs in its cytoplasmic domain (aa 267-272 and 296-301). There are multiple potential splice variants. One is TM and possesses a 35 aa substitution for aa 264-303, while others are soluble, and show a deletion of aa 152-224 that may be coupled to the 35 aa substitution noted above, or simply exhibit a 24 aa substitution for aa 152-303. Over aa 20-196, human PILR-α shares only 42% aa identity with mouse PILR-α, and 89% aa identity with human PILR-β.