Human PILR-α
Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2175B
Catalog Number: FAB64842R
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PILR-α in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2175B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PILR-α with a C-terminal 6-His tag Gln20-Thr196 Accession # Q9UKJ1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10^6 cells	HEK293 Human Cell Line Transfected with Human PILR- α and eGFP

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.

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