Human IL-26/AK155 PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 510414

Catalog Number: IC13751P

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-26/AK155 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 510414
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IL-26/AK155 Lys22-Gln171 Accession # Q9NPH9.1
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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.

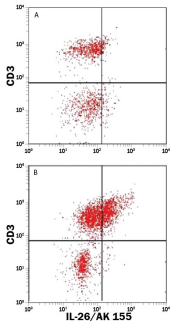
APPLICATIONS

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
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-26/AK155 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) either (A) untreated or (B) treated with PMA and Calcium Ionomycin were stained with Mouse Anti-Human IL-26/AK155 PE-conjugated Monoclonal Antibody (Catalog # IC13751P) and Mouse Anti-Human CD3ε APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Quadrant markers were set based on control antibody staining (Catalog # IC002P). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

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

IL-26 was originally cloned from herpesvirus saimiri (HVS)-transformed T cells and named AK155. It is a member of the IL-10 family of class II cytokines that signal via heterodimeric receptor complexes composed of two type I transmembrane receptor subunits. The human IL-26 gene has been mapped to chromosome 12q15. It encodes a 171 amino acid polypeptide with a 21 amino acid signal peptide. In addition to HVS-transformed T cells, IL-26 is also expressed in other virus transformed T cell lines, fresh peripheral mononuclear cells, activated NK cells and T cells. A mouse homologue of human IL-26 has not been identified. IL-26 binds with high-affinity to the heterodimeric complex consisting of the ligand-binding IL-20 Rα and non ligand-binding IL-10 Rβ. Activation of the receptor complex results in rapid phosphorylation of STAT1 and STAT3. Although the IL-26 receptor complex is highly specific for IL-26 and is not activated by other class II cytokines, the individual subunits of the IL-26 receptor complex are components in receptor complexes for other class II cytokines. IL-20 Rα can form dimers with IL-20 Rβ to function as signaling receptors for IL-19, IL-20, and IL-24. IL-10 Rβ can complex with IL-10 Rα, IL-22 R, and IL-28 Rα to transduce signals for IL-10, IL-22, and the three novel IFNs (IL-28A, IL-28B and IL-29), respectively. The physiological functions of IL-26 remain to be determined. IL-26 was reported to be a homodimer in solution.

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