

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-26 in direct ELISAs and Western blots. In these formats, less than 5% cross-reactivity with recombinant human IL-10 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IL-26 (R&D Systems, Catalog # 1375-IL) Lys22-Gln171 Accession # Q9NPH9
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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 (1). 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 (2). 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 R α and non ligand-binding IL-10 R β (3). 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 (1). IL-20 R α can form dimers with IL-20 R β to function as signaling receptors for IL-19, IL-20, and IL-24. IL-10 R β can complex with IL-10 R α , IL-22 R, and IL-28 R α 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 (1).

PRODUCT SPECIFIC NOTICES

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