

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-36β/IL-1F8 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) IL-36γ and rhIL-36α is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IL-36β/IL-1F8 Met1-Glu157 Accession # Q3MIH0
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Blockade of Receptor-ligand Interaction	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

Human interleukin 1 family member #8 [IL-1F8; also named Interleukin-36 beta, IL36B, FIL-1η (eta) and IL-1H2] is a member of the IL-1 family of proteins (1-3). IL-1 family members include IL-1β, IL-1α, IL-1ra, IL-18 and IL-1F5 through F10 (4). All family members show a 12 β-stranded β-trefoil configuration, and are believed to have arisen from a common ancestral gene that has undergone multiple duplications (4). Two alternatively spliced transcript variants encode distinct (164 or 157 residues) protein isoforms that differ in their C-terminal 70 amino acid (aa) residues have been reported (3). IL-1F8 isoform 2 is synthesized as a 157 aa protein that contains no signal sequence and no prosegment (1, 2). Unlike IL-1F8 isoform 1 which lacks potential N-linked glycosylation sites, isoform 2 contains one potential N-linked glycosylation site in its unique C-terminus. IL-1F8 is reported to be actively secreted (1). Human IL-1F8 isoform 2 shares 61% aa identity with mouse IL-1 ra, a 183 aa form of IL-1F8. Within the IL-1 family, IL-1F8 shares 30%, 32%, 37%, 46%, 34%, 45% and 28% aa sequence identity with IL-1 ra, IL-1β, IL-1F5, F6, F7, F9 and F10, respectively. Cells reported to express IL-1F8 include resting and activated monocytes and B cells (1, 4). The receptor for IL-1F8 is reported to be a combination of IL-1 Rrp2 and IL-1 RAcP (5). Recombinant IL-1F8, along with IL-1F6 and IL-1F9, has been shown to activate the pathway involving NF-κB and MAPK in an IL-1 Rrp2 dependent manner.

PRODUCT SPECIFIC NOTICES

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