

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-36 β /IL-1F8 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) IL-1F8 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-36 β /IL-1F8 Met1-Lys183 Accession # Q9D6Z6
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
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

Mouse interleukin-36 beta [IL-36 β ; also named IL-1F8, interleukin 1 family member 8, FIL-1 η (eta) and IL-1H2] is a member of the IL-1 family of proteins (1-3). IL-1 family members include IL-1 β , IL-1 α , IL-1 α , IL-1 α , 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). Although two alternatively spliced transcript variants for human IL-1F8 have been described, to date, only one mouse IL-1F8 isoform is known (3). Mouse IL-1F8 is synthesized as a 183 amino acid (aa) protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site(s) (1, 2). It is likely that mouse IL-1F8, similarly to its human homologue, is actively secreted (1). Mouse IL-1F8 shares 61% and 74% aa identity with human IL-1F8 isoform 2 and rat IL-1F8, respectively. Within the IL-1 family, IL-1F8 shares 27% sequence with 33%, 32%, 35%, 39% and 28% aa sequence identity with IL-1 α , IL-1 β , IL-1F5, F6, 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- κ B and MAPK in an IL-1Rrp2 dependent manner.

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