

Mouse IL-36α/IL-1F6 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2297S

100 µg

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IL-36α/IL-1F6 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) IL-1F5, rhIL-1F6, and rhIL-1F9 is observed, and less than 2% cross-reactivity with	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant mouse IL-36α/IL-1F6 Met1-His160 Accession # Q9JLA2	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.		
ELISA	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 alpha [IL-36α; also named interleukin 1 family member 6, IL-1F6 and FIL-1ε (epsilon)] 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-strand, β-trefoil configuration, and all family members are believed to have arisen from a common ancestral gene that has undergone multiple duplications (4). IL-1F6 is synthesized as a 160 amino acid (aa) protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site(s) (2, 5). It appears to be actively secreted (1). When found in cell lysates, it presents as an 18 kDa monomer (2). Mouse to human, full length IL-1F6 has 54% aa identity. Within the family, IL-1F6 is 29% aa identical to IL-1ra, and 32%, 32%, 34%, 41%, and 28% aa identical to IL-1β, IL-1F5, F8, F9, and F10, respectively. Cells reported to express IL-1F6 include monocytes, B cells and T cells (1, 4). Notably, IL-1F6 is the only novel IL-1 family member found to be expressed on T-cells. The receptor for IL-1F6 is reported to be a combination of IL-1 Rrp2 and IL-1 RACP (6). Recombinant IL-1F6, along with IL-1F8 and IL-1F9, has been shown to act as an agonist by activating the pathway involving NF-κB and MAPK in an IL-1 Rrp2 dependent manner. This suggests that IL-1F6 may signal in similar fashion to IL-1 and IL-18 in having a binding receptor which upon ligation, recruits a second receptor as a signaling component, forming an active heterodimeric receptor complex.

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Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

China | info.cn@bio-techne.com TEL: 400.821.3475

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