



## Anti-Mouse IL-36 alpha (#11G13)

20230310DS



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

<b>Cat.-no.:</b>	<b>103-M542</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with recombinant mouse Interleukin-36 alpha (IL-36 alpha)).

### Target Background

<b>Synonyms (Target):</b>	Interleukin-36α, IL36A, Interleukin-1 family member 6 (IL-1F6), FIL1ε (FIL1E), Interleukin-1ε (IL1E)
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The IL-1 family is comprised of 11 structurally related ligands, including recently re-named IL-36α (IL-1F6), β (IL-1F8), and γ (IL-1F9). IL-36α is highly expressed in psoriatic plaques, as are IL-36β and IL-36γ, and is the only IL-1 family member found to be expressed by T-cells, as well as monocytes and B-cells. Primarily found in skin and lymphoid tissues, IL-36α is also found to a lesser extent in tissues of the fetal brain, trachea, stomach, and intestine. IL-36α signals through a combination of the IL-1Rrp2 (IL-1R6) receptor, which is primarily expressed on certain dendritic cells, and the widely expressed IL-RAcP (IL-1 receptor accessory protein). IL-36α also functions as an agonist of NF-kappaB and MAPK pathways, and induces the production of proinflammatory cytokines and chemokines, including IL-6, IL-8, BD-2, and BD-3. Recombinant human IL-36α is a 17.2 kDa protein containing 154 amino acid residues.

### Database References Target

<b>Protein RefSeq:</b>	NP_055255.1.
<b>Uniprot ID:</b>	Q9UHA7
<b>mRNA RefSeq:</b>	NM_014440.2

### Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#11G13)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	Recombinant Mouse IL-36 alpha
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS

### Application/Handling

**Reconstitution:** Centrifuge vial prior to opening. Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20°C for at least for six months without detectable loss of activity.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### Applications

The antibody can be used within the following applications:  
N/B

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**