

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-38/IL-1F10 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 798036R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-38/IL-1F10 Met1-Arg152 Accession # Q8R459
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA

<p>Western Blot</p> <p>Detection of Mouse IL-38/IL-1F10 by Western Blot. Western blot shows lysates of mouse skin tissue. PVDF membrane was probed with 2 µg/mL of Recombinant Rat Anti-Mouse IL-38/IL-1F10 Monoclonal Antibody (Catalog # MAB7774R) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for IL-38/IL-1F10 at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Flow Cytometry</p> <p>Detection of IL-38/IL-1F10 in RAW 264.7 Mouse Cell Line by Flow Cytometry. RAW 264.7 mouse monocyte/macrophage cell line was stained with Recombinant Rat Anti-Mouse IL-38/IL-1F10 Monoclonal Antibody (Catalog # MAB7774R, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Fluorescein-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0104B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer 1 (Catalog # FC005). View our protocol for <i>Staining Intracellular Molecules</i>.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IL-1F10, also known as IL-1HY2, is a secreted protein that shares sequence and structural similarity with IL-1 receptor antagonist and other IL-1 family members. It is expressed in basal epithelia of the skin and in proliferating germinal center CD20⁺ B cells. IL-1F10 binds soluble IL-1RI in vitro and may participate in regulation of immune responses. Mouse IL-1F10 shares 82% and 93% aa identity with human and rat IL-1F10, respectively. IL-1F10 is predicted to be 17 kDa.