

Mouse IL-38/IL-1F10 Antibody

Recombinant Monoclonal Rat IgG_{2A} Clone # 798036R Catalog Number: MAB7774R

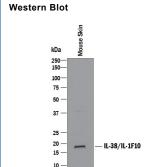
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-38/IL-1F10 in direct ELISAs and Western blots.		
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 798036R		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	E.coli-derived recombinant mouse IL-38/IL-1F10 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

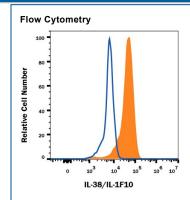
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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





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.



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 I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

ShippingThe 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

- 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.

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