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Datasheet for 209-306-B31

IL-17F Biotin Conjugated Antibody

Overview

Description:	Anti-Human IL-17F (MOUSE) Biotin Conjugated Monoclonal Antibody - 209-306-B31
Item No.:	209-306-B31
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-L-17F recognizes IL-17F (also known as Cytokine ML-1 or Interleukin-24). IL-17F is produced and secreted by CD8+ T cells, NK cells, NKT cells and LTi cells. The main functions of IL-17F are neutrophil recruitment and immunity to extracellular pathogen. More importantly, IL-17F drives inflammation and auto-immunity. IL-17A and IL-17F are by far the best characterized cytokines of the IL-17 cytokine family. IL-17F dimerizes in a parallel fashion similar to nerve growth factor and other neutrophins. Its dimerization is critical to fulfill its activity. When secreted by activated T cells, IL-17F can stimulate the production of other cytokines such as IL-6, IL-8 granulocyte colony-stimulating factor and, can stimulate cartilage matrix turnover. Defects in IL17F are the cause of familial candidiasis type 6 (CANDF6). CANDF6 is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against Candida. Anti-IL-17E cytokine antibody is ideal for investigators involved in Immunology, Signal Transduction research, Cancer and Inflammatory pathologies.
Synonyms:	mouse anti-IL-17F biotin conjugated antibody, mouse anti-Interleukin-17F biotin conjugated antibody, Cytokine ML-1, Interleukin-24
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	4H1629.1
Format:	IgG1
F/P Ratio:	10-20

Target Details

Gene Name:	IL17F
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-IL-17F (MOUSE) Monoclonal Antibody was produced in mouse by repeated immunizations with mature full length recombinant human IL-17F produced in E.coli followed by hybridoma development.
Purity/Specificity:	This product was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human IL-17F protein. A BLAST analysis was used to suggest cross-reactivity with IL-17F from human sources based on 100% homology with the immunizing sequence. Cross-reactivity with IL-17F from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96PD4 • GeneID - 112744 • NCBI - NP_443104.1

Application Details

Tested Applications:	IHC, WB
Application Note:	This purified antibody has been tested for use in IHC and Western Blot. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:50,000
IHC:	5µg/mL
WB:	0.5 mg/mL

Formulation

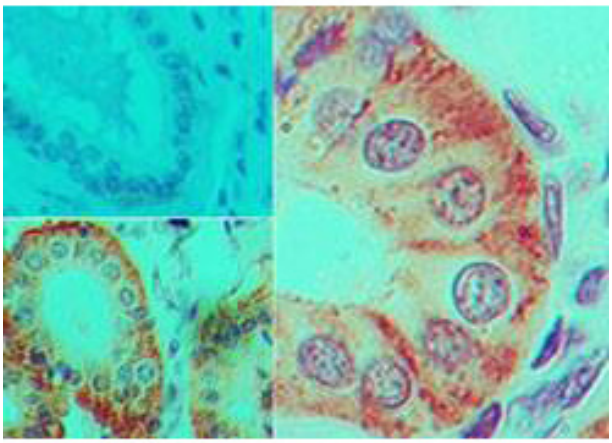
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

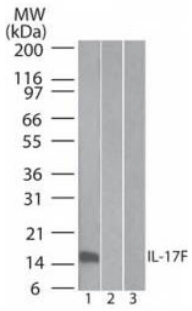
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Restore with 0.1 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of Mouse Anti-IL-17F antibody. Tissue: human colon tissue. Fixation: formalin-fixed, paraffin-embedded. Primary antibody: isotype control (top left), Mouse Anti-IL-17F antibody (right and bottom left) at 5 ug/mL.



Western Blot

Western Blot of Mouse Anti-IL-17F antibody. Lane 1: human full length recombinant IL-17F protein. Lane 2: mouse full length recombinant IL-17F protein. Lane 3: rat full length recombinant IL-17F protein. Load: 20 ng/lane. Primary antibody: Anti-IL-17F antibody (209-301-B31) at 0.5ug/mL for overnight at 4°C.

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