Datasheet for ABIN1043791

anti-IL17F antibody (Biotin)

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Overview

Quantity:	100 µg
Target:	IL17F
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL17F antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	IL-17F Biotin Conjugated Antibody
Immunogen:	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. Immunogen Type: Recombinant Protein
Clone:	4H1629-1
Isotype:	IgG1
Cross-Reactivity (Details):	This antibody is specific for human IL-17F protein.
Characteristics:	Synonyms: mouse anti-IL-17F biotin conjugated antibody, mouse anti-Interleukin-17F biotin conjugated antibody, Cytokine ML-1, Interleukin-24
Purification:	This product was purified from concentrated tissue culture supernate by Protein G chromatography followed by extensive dialysis against the buffer stated above.

Product Details

Labeling Ratio:	10-20

Target Details

Target:	IL17F
Alternative Name:	IL17F (IL17F Products)
Background:	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.
Gene ID:	112744
NCBI Accession:	NP_443104
UniProt:	Q96PD4
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity

Application Details

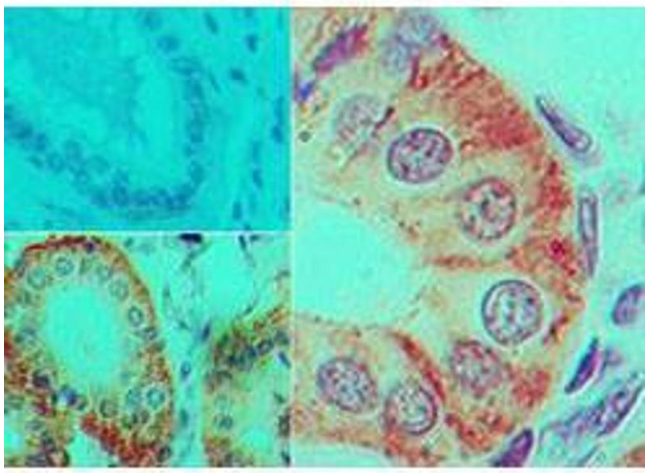
Application Notes:	Immunohistochemistry Dilution: 5 µg/mL Application Note: This purified antibody has been tested for use in IHC and Western Blot. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 0.5 mg/mL ELISA Dilution: 1:10,000-1:50,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

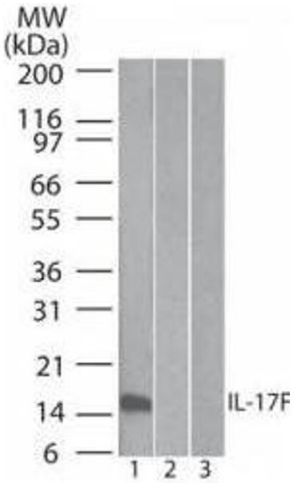
Publications

Product cited in:	Conti, Shen, Nayyar, Stocum, Sun, Lindemann, Ho, Hai, Yu, Jung, Filler, Masso-Welch, Edgerton, Gaffen: "Th17 cells and IL-17 receptor signaling are essential for mucosal host defense against oral candidiasis." in: **The Journal of experimental medicine**, Vol. 206, Issue 2, pp. 299-311, (2009) (PubMed).



Immunohistochemistry

Image 1. 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 (bottom left, right) at 5 ug/mL



Western Blotting

Image 2. 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 at 0.5ug/mL for overnight at 4°C