

## Datasheet for 209-306-B31

**IL-17F Biotin Conjugated Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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 LT <sub>i</sub> 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.
<b>Synonyms:</b>	mouse anti-IL-17F biotin conjugated antibody, mouse anti-Interleukin-17F biotin conjugated antibody, Cytokine ML-1, Interleukin-24
<b>Host Species:</b>	Mouse
<b>Conjugate:</b>	Biotin
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	4H1629.1
<b>Format:</b>	IgG1
<b>F/P Ratio:</b>	10-20

## Target Details

<b>Gene Name:</b>	IL17F
<b>Reactivity:</b>	Human
<b>Immunogen Type:</b>	Recombinant Protein
<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q96PD4</a></li><li>• <a href="#">GeneID - 112744</a></li><li>• <a href="#">NCBI - NP_443104.1</a></li></ul>

## Application Details

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

## Formulation

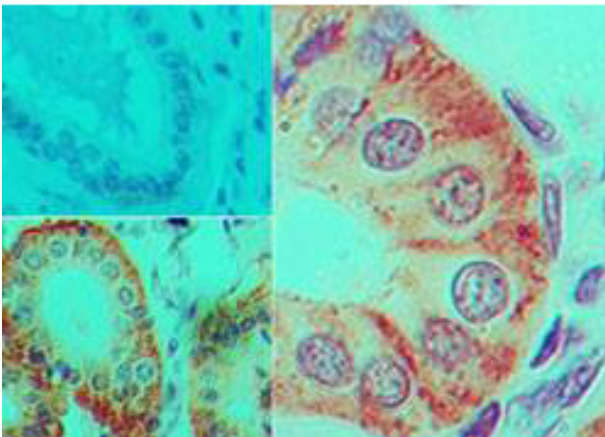
<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Sodium Azide

<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

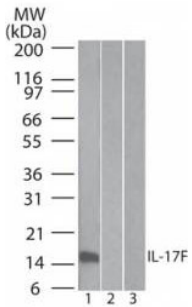
<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Restore with 0.1 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely 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.
<b>Expiration:</b>	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  $\mu$ g/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.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.