

**IL-17F Polyclonal Antibody**  
**Catalog # AP74230****Specification**

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**IL-17F Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">Q96PD4</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

**IL-17F Polyclonal Antibody - Additional Information****Gene ID** 112744**Other Names**

Interleukin-17F (IL-17F) (Cytokine ML-1) (Interleukin-24) (IL-24)

**Dilution**

IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**IL-17F Polyclonal Antibody - Protein Information****Name** IL17F**Function**

Effector cytokine of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity (PubMed: <a href="http://www.uniprot.org/citations/21350122" target="\_blank">21350122</a>). IL17A-IL17F signals via IL17RA-IL17RC heterodimeric receptor complex, triggering homotypic interaction of IL17RA and IL17RC chains with TRAF3IP2 adapter through SEFIR domains. This leads to downstream TRAF6-mediated activation of NF-kappa-B and MAPkinase pathways ultimately resulting in transcriptional activation of cytokines, chemokines, antimicrobial peptides and matrix metalloproteinases, with potential strong immune inflammation (PubMed: <a href="http://www.uniprot.org/citations/11574464" target="\_blank">11574464</a>, PubMed: <a href="http://www.uniprot.org/citations/11591732" target="\_blank">11591732</a>, PubMed: <a href="http://www.uniprot.org/citations/11591768" target="\_blank">11591768</a>, PubMed: <a href="http://www.uniprot.org/citations/17911633" target="\_blank">17911633</a>, PubMed: <a href="http://www.uniprot.org/citations/18684971" target="\_blank">18684971</a>, PubMed: <a href="http://www.uniprot.org/citations/21350122" target="\_blank">21350122</a>, PubMed: <a href="http://www.uniprot.org/citations/28827714" target="\_blank">28827714</a>). IL17A-IL17F is primarily involved in host defense against extracellular bacteria and fungi by inducing neutrophilic inflammation (By similarity). As signature effector cytokine of T-helper 17

cells (Th17), primarily induces neutrophil activation and recruitment at infection and inflammatory sites (By similarity). Stimulates the production of antimicrobial beta-defensins DEFB1, DEFB103A, and DEFB104A by mucosal epithelial cells, limiting the entry of microbes through the epithelial barriers (By similarity). IL17F homodimer can signal via IL17RC homodimeric receptor complex, triggering downstream activation of TRAF6 and NF-kappa-B signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/32187518" target="\_blank">32187518</a>). Via IL17RC induces transcriptional activation of IL33, a potent cytokine that stimulates group 2 innate lymphoid cells and adaptive T-helper 2 cells involved in pulmonary allergic response to fungi. Likely via IL17RC, promotes sympathetic innervation of peripheral organs by coordinating the communication between gamma-delta T cells and parenchymal cells. Stimulates sympathetic innervation of thermogenic adipose tissue by driving TGFB1 expression (By similarity). Regulates the composition of intestinal microbiota and immune tolerance by inducing antimicrobial proteins that specifically control the growth of commensal Firmicutes and Bacteroidetes (By similarity).

**Cellular Location**

Secreted {ECO:0000250|UniProtKB:Q7TNI7}.

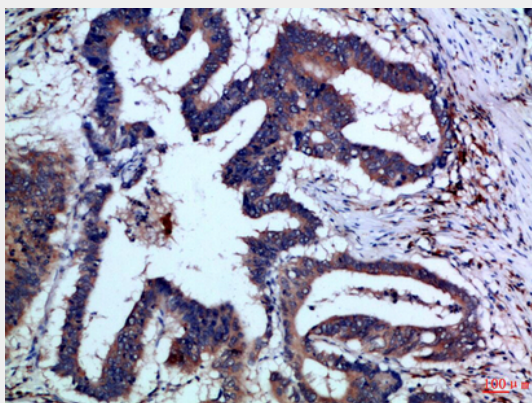
**Tissue Location**

Expressed in T-helper 1 and T-helper 2 cells, basophils and mast cells.

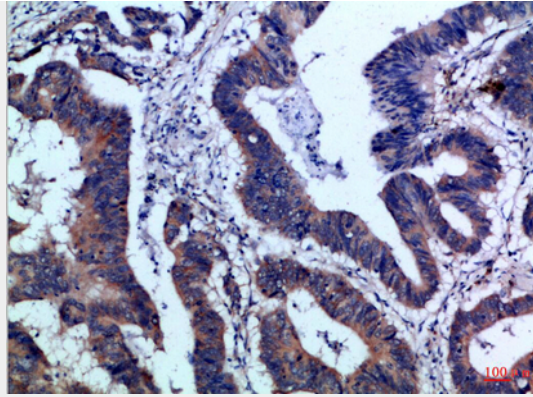
**IL-17F Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

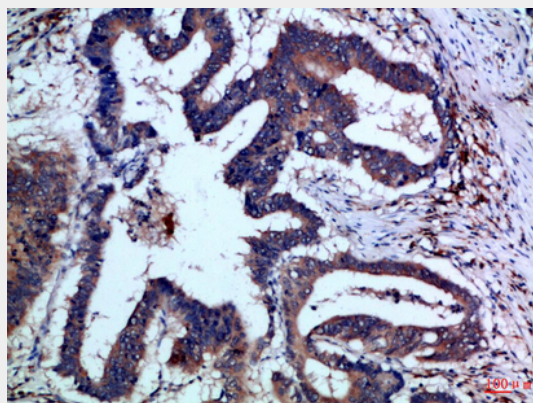
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**IL-17F Polyclonal Antibody - Images**

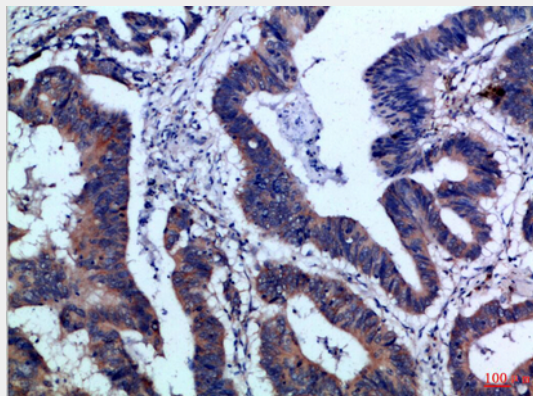
Immunohistochemical analysis of paraffin-embedded Human-colon-cancer, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded Human-colon-cancer, antibody was diluted at 1:100



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Immunohistochemical analysis of paraffin-embedded Human-colon-cancer, antibody was diluted at 1:100

### **IL-17F Polyclonal Antibody - Background**

Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover (PubMed:11591732, PubMed:11591768, PubMed:11574464). Also involved in stimulating the proliferation of peripheral blood mononuclear cells and T-cells and in inhibition of angiogenesis (PubMed:11591732). Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation (By similarity).