

IL-17F Polyclonal Antibody

Catalog Number PA1-86898

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	<div><div>Tested Applications</div><div>Dilution *</div></div>	
Class	Polyclonal		
Type	Antibody		
Immunogen	Recombinant human IL-17F		
Conjugate	Unconjugated	ELISA (ELISA)	0.5-2 µg/mL
Form	Lyophilized	Functional Assay (FN)	0.9-1.2 µg/mL
Concentration	1 mg/mL	Western Blot (WB)	0.1-0.2 µg/mL
Purification	Affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.2		
Contains	no preservative		
Storage Conditions	-20°C		

Product specific information

Reconstitute with 0.1 mL of distilled water. Prior to reconstitution, store at 4°C. After reconstitution, store undiluted at -20°C, avoiding freeze/thaw cycles. Rabbit anti Human interleukin-17F antibody recognizes human IL-17F (interleukin-17F), a disulphide-linked homodimer consisting of two 133 amino acid chains, which belongs to the IL-17 gene family and shares the highest sequence homology with IL-17A.

Background/Target Information

IL-17F (Interleukin 17F, CTLA-8)) is a cytokine belonging to the IL-17 family that is produced by inflammatory cells such as activated T cells, mast cells, and basophils. IL-17F is involved in allergic airway inflammation, and can induce several cytokines, chemokines, and adhesion molecules in bronchial epithelial cells, vein endothelial cells, fibroblasts, and eosinophils. IL-17F may be secreted as a homodimer, or a heterodimer with IL17A. It acts by binding to the type I receptor, IL-17R, aiding recruitment of monocytes and neutrophils at the site of inflammation by increasing chemokine production. IL-17F also stimulates induction of other pro-inflammatory cytokines TNF alpha, IL-1 beta, IL-6, and IL-8, and reports strongly suggest the involvement of IL-17 in several chronic inflammatory diseases such as rheumatoid arthritis, psoriasis and multiple sclerosis. TGF-beta (differentiation) and IL-23 (expansion) are required for induction and maintenance of Th17 (IL-17 producing) cells, which in turn induce the other pro-inflammatory cytokines. IL-17F is produced, and exists, as a homo-dimer, with homology to a herpes virus early protein, is one of the six members (IL-17A-F) of this cytokine family, and is well characterized and highly expressed by activated effector memory T cells. IL-17F has been found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein-1.

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