

IL-31 Polyclonal Antibody

Catalog NumberPA5-20220

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution *2.5-10 µg/mL
Type	Antibody	Immunocytochemistry (ICC/IF)	20 µg/mL
Immunogen	An 18 amino acid peptide from near the center of human IL-31.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

\* 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.

Product specific information

Despite its predicted molecular weight, IL-31 often migrates at ~27-30kDa in SDS-PAGE. A suggested positive control is human skeletal muscle tissue lysate. PA5-20220 can be used with blocking peptide PEP-0333.

Background/Target Information

Interleukin-31 (IL-31) is a recently discovered T-cell cytokine closely related to IL-6 type cytokines and is preferentially produced by T helper type 2 cells. IL-31 activity is mediated through the ligand-induced oligomerization of a dimeric receptor complex containing IL-31 receptor A and oncostatin M receptor. In response to IL-31 binding, these proteins activate the JAK/STAT and the AKT signaling pathways. RNA levels of IL-31 receptor A and oncostatin M receptor are induced in activated monocytes but are expressed constitutively in epithelial cells. IL-31, when overexpressed in transgenic mice, results in the development of pruritis, alopecia, and skin lesions and in humans may result in atopic dermatitis, suggesting that IL-31 may represent a novel target for antipruritic drug development.

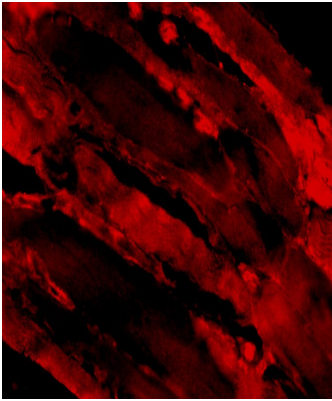
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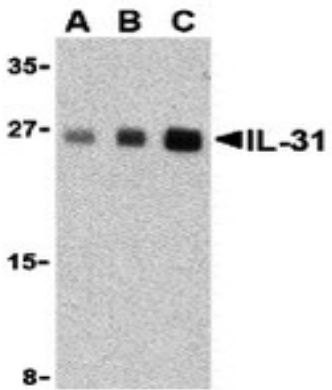
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Product Images For IL-31 Polyclonal Antibody



**IL-31 Antibody (PA5-20220) in ICC/IF**  
Immunofluorescence of IL-31 in Human Skeletal Muscle cells with IL-31 Polyclonal Antibody (Product # PA5-20220) at 20 µg/mL.



**IL-31 Antibody (PA5-20220) in WB**  
Western Blot analysis of IL-31 in human skeletal muscle tissue lysate with IL-31 Polyclonal Antibody (Product # PA5-20220) at (A) 2.5, (B) 5 and (C) 10 µg/mL.

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