

IL-13 Polyclonal Antibody

Catalog NumberP130E

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Assay-dependent
Immunogen	Recombinant human IL-13	Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	1.0 mg/mL	ELISA (ELISA)	See 6 publications below
Purification	Protein A	* 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		
Contains	no preservative		
Storage Conditions	-20°C		

Product specific information

P130E targets IL-13 in ELISA, and WB applications and shows reactivity with Human samples. The P130E immunogen is recombinant human IL-13. P130E detects IL-13 which has a predicted molecular weight of approximately 13 kDa. The P130E IL13 polyclonal antibody has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M130B (biotinylated conjugate of clone 5A2) Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection. Antibody P130E and biotinylated antibody M130B (clone 5A2) have successfully been used in combination with recombinant IL13 protein SIL13 in ELISA applications.

Background/Target Information

IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and is involved in regulating inflammatory and immune responses. IL-13 down-regulates macrophage activity, thereby inhibiting the production of pro-inflammatory cytokines and chemokines, and is involved in allergen-induced asthma through mechanisms independent of IgE and eosinophils. IL-13 also regulates several stages of B cell maturation and differentiation, up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. Structurally, IL-13 closely resembles IL-3, IL-4, IL-5 and GM-CSF. The gene encoding IL-13, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with the IL-13 gene particularly close to IL4.

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PubMed References For IL-13 Polyclonal Antibody

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	P130E was used in Immunohistochemistry (Paraffin) to conclude that understanding and managing the aggravated and ineffective immune response elicited by SARS-CoV-2 merits further clarification to improve treatments propose.
Human / 1:600	Scientific reports (2020; 10:) "IL-4/IL-13 remodeling pathway of COVID-19 lung injury." Author(s):Vaz de Paula CB,de Azevedo MLV,Nagashima S,Martins APC,Malaquias MAS,Miggiolaro AFRDS,da Silva Motta Júnior J,Avelino G,do Carmo LAP,Carstens LB,de Noronha L PubMed Article URL: http://dx.doi.org/10.1038/s41598-020-75659-5

6 ELISA References

Species / Dilution	Summary
	P130E was used in ELISA to characterize the prenatal immune responses against Plasmodium falciparum erythrocyte invasion ligands
Human / Not Cited	Infection and immunity (2005; 73: 3462) "Distinct Th1- and Th2-Type prenatal cytokine responses to Plasmodium falciparum erythrocyte invasion ligands." Author(s):Malhotra I,Mungai P,Muchiri E,Ouma J,Sharma S,Kazura JW,King CL PubMed Article URL: http://dx.doi.org/10.1128/IAI.73.6.3462-3470.2005
	P130E was used in ELISA to investigate the role of plasmodium vivax duffy binding protein
Human / 1:2,000	Journal of immunology (Baltimore, Md. : 1950) (2002; 169: 3200) "Age-dependent cellular immune responses to Plasmodium vivax Duffy binding protein in humans." Author(s):Xainli J,Baisor M,Kastens W,Bockarie M,Adams JH,King CL PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.169.6.3200
	P130E was used in ELISA to study the effect of the prenatal malaria exposure on immune tolerance
Human / Not Cited	PLoS medicine (2009; 6:) "Can prenatal malaria exposure produce an immune tolerant phenotype? A prospective birth cohort study in Kenya." Author(s):Malhotra I,Dent A,Mungai P,Wamachi A,Ouma JH,Narum DL,Muchiri E,Tisch DJ,King CL PubMed Article URL: http://dx.doi.org/10.1371/journal.pmed.1000116
	P130E was used in ELISA to study the role of the interaction between CD226 and CD155 in regulating the human T-cell pro-inflammatory/anti-inflammatory balance
Human / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 3673) "The CD226/CD155 interaction regulates the proinflammatory (Th1/Th17)/anti-inflammatory (Th2) balance in humans." Author(s):Lozano E,Joller N,Cao Y,Kuchroo VK,Hafner DA PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1300945
	P130E was used in ELISA to study the interleukin 13 production in infants with different pertussis-tetanus-diphtheria-poliomyelitis vaccines
Human / Not Cited	Vaccine (2007; 25: 391) "Modulation of the infant immune responses by the first pertussis vaccine administrations." Author(s):Mascart F,Hainaut M,Peltier A,Verscheure V,Levy J,Locht C PubMed Article URL: http://dx.doi.org/10.1016/j.vaccine.2006.06.046
	P130E was used in ELISA to study the role of HLA-DQ molecules in Th-cell responses
Human / Not Cited	Laboratory investigation; a journal of technical methods and pathology (2010; 90: 1747) "Fibroblasts stimulated via HLA-II molecules produce prostaglandin E and regulate cytokine production from helper T cells." Author(s):Kato-Kogoe N,Ohyama H,Nishimura F,Meguro M,Yoshizawa S,Okada Y,Nakasho K,Yamanegi K,Yamada N,Hata M,Higashi T,Terada N,Matsushita S PubMed Article URL: http://dx.doi.org/10.1038/labinvest.2010.128

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