

IL-6 Polyclonal Antibody

Catalog NumberPM626

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Mouse
Host/Isotope	Rabbit / IgG	Published species	Mouse, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Assay-dependent
Immunogen	Recombinant mouse IL-6	Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 2 publications below
Concentration	1.0 mg/mL	Immunohistochemistry (IHC)	See 2 publications below
Purification	Protein G	Neutralization (Neu)	See 2 publications below
Storage buffer	PBS	* 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.	
Contains	no preservative		
Storage Conditions	-20°C		

Product specific information

PM626 targets IL-6 in ELISA, and WB applications and shows reactivity with mouse samples. The PM626 immunogen is recombinant mouse IL-6. PM626 detects IL-6 which has a predicted molecular weight of approximately 22 kDa. This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

Background/Target Information

IL-6 is a gene that encodes a cytokine that plays a role in inflammation and the maturation of B cells. The protein produced by this gene is an endogenous pyrogen that can induce fever in people with autoimmune diseases or infections. The gene is primarily expressed at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2). Diseases associated with IL6 include Kaposi Sarcoma and Rheumatoid Arthritis, Systemic Juvenile.

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PubMed References For IL-6 Polyclonal Antibody	
2 Western Blot References	
Species / Dilution	Summary
Mouse / Not Cited	PM626 was used in western blot to test if Aldo-mediated cardiomyocyte hypertrophy is dependent on TRAF3IP2.
	Cellular signalling (2015; 27: 1928) "Aldosterone-induced cardiomyocyte growth, and fibroblast migration and proliferation are mediated by TRAF3IP2." Author(s):Soman NK,Yariswamy M,Garagliano JM,Siebenlist U,Mummidi S,Valente AJ,Chandrasekar B PubMed Article URL: http://dx.doi.org/10.1016/j.cellsig.2015.07.001
Mouse / 1:1000	PM626 was used in western blot to study the effect of adenosine A2A receptor deficiency on chronic ischemic brain injury
	Journal of the neurological sciences (2009; 285: 39) "Adenosine A2A receptor deficiency exacerbates white matter lesions and cognitive deficits induced by chronic cerebral hypoperfusion in mice." Author(s):Duan W,Gui L,Zhou Z,Liu Y,Tian H,Chen JF,Zheng J PubMed Article URL: http://dx.doi.org/10.1016/j.jns.2009.05.010
2 Immunohistochemistry References	
Species / Dilution	Summary
Mouse / 1:200	PM626 was used in Immunohistochemistry to demonstrate that combination therapy of dapagliflozin and liraglutide exerts beneficial metabolic and neuroprotective effects in diet-induced diabetic mice.
	The Journal of endocrinology (2017; 234: 255) "Metabolic and neuroprotective effects of dapagliflozin and liraglutide in diabetic mice." Author(s):Millar P,Pathak N,Parthsarathy V,Bjourson AJ,O'Kane M,Pathak V,Moffett RC,Flatt PR,Gault VA PubMed Article URL: http://dx.doi.org/10.1530/JOE-17-0263
Mouse / 1:300	PM626 was used in immunohistochemistry to study the effect of rosuvastatin on microglia in mice
	Biochemical and biophysical research communications (2010; 402: 367) "Rosuvastatin reduces microglia in the brain of wild type and ApoE knockout mice on a high cholesterol diet; implications for prevention of stroke and AD." Author(s):Famer D,Wahlund LO,Crisby M PubMed Article URL: http://dx.doi.org/10.1016/j.bbrc.2010.10.035
2 Neutralization References	
Species / Dilution	Summary
Mouse / Not Cited	PM626 was used in blocking or activating experiment to study the protective effect of photodynamic therapy against bacterial arthritis and the mechanism involved
	PloS one (2013; 7:) "Photodynamic therapy can induce a protective innate immune response against murine bacterial arthritis via neutrophil accumulation." Author(s):Tanaka M,Mroz P,Dai T,Huang L,Morimoto Y,Kinoshita M,Yoshihara Y,Nemoto K,Shinomiya N,Seki S,Hamblin MR PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0039823
Mouse / Not Cited	PM626 was used in blocking/activating experiment to study the effect of interleukin 6 antibodies on Escherichia coli infection and tumor necrosis factor alpha challenge in mice
	Journal of immunology (Baltimore, Md. : 1950) (1992; 148:) "Anti-IL-6 monoclonal antibodies protect against lethal Escherichia coli infection and lethal tumor necrosis factor-alpha challenge in mice." Author(s):Starnes HF,Pearce M,Yim J,Abrams J,Tewari A,Zou J PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/1541834

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