

IL-6 Polyclonal Antibody

Catalog Number **PP690**

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Pig
Host/Isotope	Rabbit / IgG	Published species	Pig
Class	Polyclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	Dilution *
Immunogen	Recombinant porcine IL-6		Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 2 publications below
Concentration	1.0 mg/mL	ELISA (ELISA)	See 1 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

PP690 targets IL-6 in WB applications and shows reactivity with Porcine samples. The PP690 immunogen is recombinant porcine IL-6. PP690 detects IL-6 which has a predicted molecular weight of approximately 21 kDa. This product is a Low Endotoxin formulation. 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
	PP690 was used in Western Blotting to investigate the anti-IL-1 mechanism of matriline in porcine alveolar macrophages (PAMs) stimulated with 4 µg porcine reproductive and respiratory syndrome virus (PRRSV) 5'-untranslated region (UTR) RNA and 1 µg/mL LPS.
Pig / 1:500	Veterinary research (2019; 50:) "Matrine inhibits IL-1 secretion in primary porcine alveolar macrophages through the MyD88/NF-B pathway and NLRP3 inflammasome." Author(s):Sun P,Sun N,Yin W,Sun Y,Fan K,Guo J,Khan A,He Y,Li H PubMed Article URL: http://dx.doi.org/10.1186/s13567-019-0671-x
	PP690 was used in western blot to develop a novel antigen capture-ELISA for measuring porcine IL-6 using IgY
Pig / Not Cited	Journal of veterinary science (2004; 5: 337) "Development of a novel antigen capture-ELISA using IgY against porcine interleukin-6 and its application." Author(s):Lee DY,Cho YW,Kang SG,Shin SJ,Yoo HS PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/15613818

1 ELISA References

Species / Dilution	Summary
	PP690 was used in ELISA to develop a cytometric bead array to detect porcine cytokines and acute phase proteins
Pig / Not Cited	Veterinary immunology and immunopathology (2013; 151: 28) "Development of a cytometric bead array screening tool for the simultaneous detection of pro-inflammatory cytokines in porcine plasma." Author(s):Wyns H,Croubels S,Demeyere K,Watteyn A,De Backer P,Meyer E PubMed Article URL: http://dx.doi.org/10.1016/j.vetimm.2012.09.041

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