

MOG Polyclonal Antibody

Catalog NumberPA5-19602

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Bovine, Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Dilution * Assay-Dependent
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 200 to the C-terminus of Rat Myelin oligodendrocyte glycoprotein.	Immunoprecipitation (IP)	5 µg/mL
		Western Blot (WB)	1:1,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (IHC)	See 1 publications below
Concentration	1 mg/mL	* 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.	
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7.4		
Contains	0.02% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

This antibody is predicted to react with cow, human and common marmoset based on sequence homology. Store antibody at 4°C for 1-2 weeks. For long-term storage, store at -20°C.

Background/Target Information

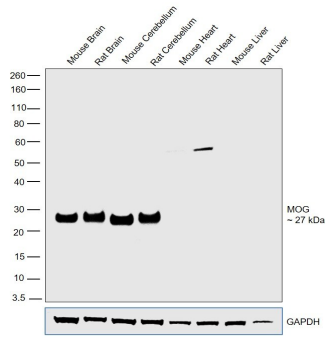
The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript variants encoding different isoforms have been identified.

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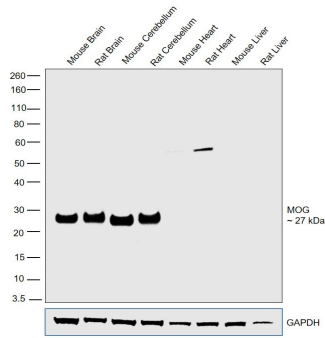
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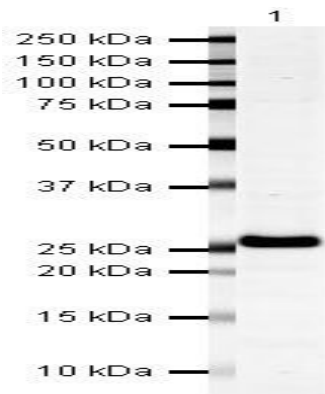
MOG Antibody (PA5-19602) in WB

Western blot was performed using Anti-MOG Polyclonal Antibody (Product # PA5-19602) and a 27 kDa band corresponding to Myelin-oligodendrocyte glycoprotein was observed in Mouse and Rat Brain and Cerebellum but not in Heart and Liver. Tissue extracts (30 µg lysate) of Mouse Brain (Lane 1), Rat Brain (Lane 2), Mouse Cerebellum (Lane 3), Rat Cerebellum (Lane 4), Mouse Heart (Lane 5), Rat Heart (Lane 6), Mouse Liver (Lane 7) or Rat Liver (Lane 8) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



MOG Antibody (PA5-19602)

Antibody specificity was demonstrated by detection of differential basal expression of the target across Mouse Brain, Rat Brain, Mouse Cerebellum, Rat Cerebellum, Mouse Heart, Rat Heart, Mouse Liver, Rat Liver owing to their inherent genetic constitution. Relative expression of Myelin-oligodendrocyte glycoprotein was observed in Mouse and Rat Brain and Cerebellum as compared to Heart and Liver using Anti-MOG Polyclonal Antibody (Product # PA5-19602) in Western Blot. {RE}



MOG Antibody (PA5-19602) in WB

Western blot analysis of Mouse Brain Tissue Lysate using Product # PA5-19602, Myelin oligodendrocyte glycoprotein primary antibody at a dilution of 1 µg/mL. Blot treated with a secondary HRP-conjugated Goat polyclonal anti-Rabbit antibody was used at a dilution of 1:3000.

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PubMed References For MOG Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
	PA5-19602 was used in Immunohistochemistry to support the importance of maintaining a nutritional lifestyle similar to that occurring in natural conditions.
Bovine / 1:100	Animals : an open access journal from MDPI (2019; 9:) "Environment and Behavior: Neurochemical Effects of Different Diets in the Calf Brain." Author(s):Peli A,Grandis A,Tassinari M,Famigli Bergamini P,Tagliavia C,Roccaro M,Bombardi C PubMed Article URL: http://dx.doi.org/10.3390/ani9060358

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