

Human Myoglobin Antibody

Monoclonal Mouse IgG_{2A} Clone # 974145 Catalog Number: MAB97202

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Myoglobin in direct ELISAs. In sandwich immunoassays, the antibody pair is specific for human Myoglobin.	
Source	Monoclonal Mouse IgG _{2A} Clone # 974145	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Purified human cardiac myoglobin antigen from human heart Accession # P02144	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

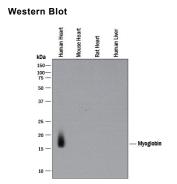
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	0.05 μg/mL	See Below	
Immunohistochemistry	1-25 μg/mL	See Below	
Simple Western	10 μg/mL	See Below	
ELISA	,	This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human/Mouse/Rat Myoglobin Monoclonal Antibody (Catalog # MAB97201). In sandwich immunoassays, the antibody pair is specific for human	

Myoglobin.

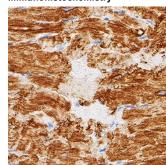
This product is intended for assay development on various assay platforms requiring antibody pairs.

DATA

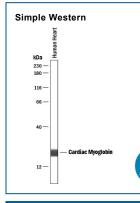


Detection of Human Myoglobin by Western Blot. Western blot shows lysates of human heart tissue, mouse heart tissue (negative control), rat heart tissue (negative control), and human liver tissue (negative control). PVDF membrane was probed with 0.05 µg/mL of Mouse Anti-Human Myoglobin Monoclonal Antibody (Catalog # MAB97202) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Myoglobin at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer

Immunohistochemistry



Myoglobin in Human Heart. Myoglobin was detected in immersion fixed paraffinembedded sections of human heart using Mouse Anti-Human Myoglobin Monoclonal Antibody (Catalog # MAB97202) at 1.7 μg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to sarcoplasm. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.



Detection of Human Myoglobin by Simple WesternTM. Simple Western lane view shows lysates of human heart tissue, loaded at 0.5 mg/mL. A specific band was detected for Myoglobin at approximately 22 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human Myoglobin Monoclonal Antibody (Catalog # MAB97202) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Shipping

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Group 1.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Myoglobin is a 17KDa cytoplasmic oxygen-binding protein encoded by the MB gene and expressed in myocytes of the heart and skeletal muscle. Its name derives from its structural and functional similarity to hemoglobin, the oxygen binding protein found in red blood cells. Functions of myoglobin include oxygen storage and transport, as well as scavenging of NO and reactive oxygen species. Myoglobin also serves as a sensitive marker for muscle injury resulting from cardiac infarction. Myoglobin was the first protein to have its three-dimensional structure determined by X-ray crystallography.

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