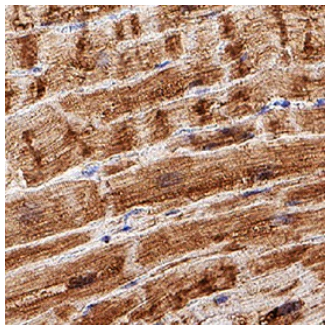
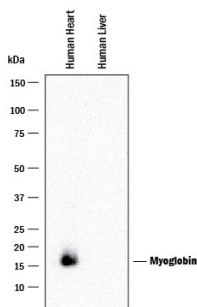
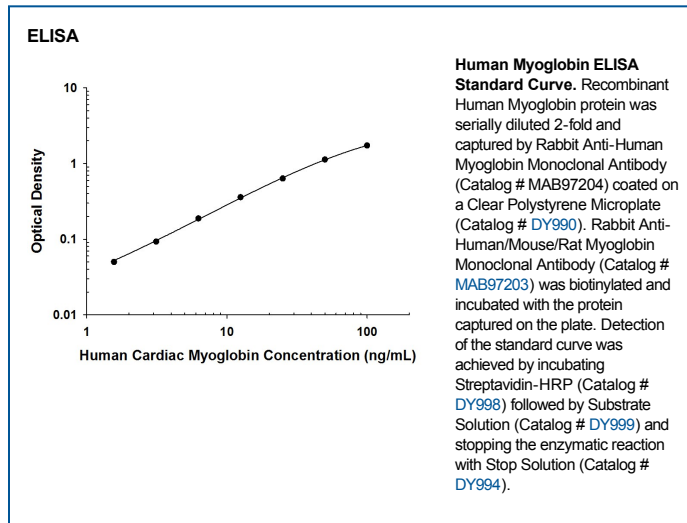


DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Myoglobin in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2269D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Purified human Myoglobin antigen from human heart Accession # P02144
Formulation	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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	0.05 µg/mL	See Below
Immunohistochemistry	3-25 µg/mL	See Below
ELISA	This antibody functions as an ELISA capture antibody when paired with Rabbit Anti-Human/Mouse/Rat Myoglobin Monoclonal Antibody (Catalog # MAB97203). <i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i>	

DATA	
<p>Immunohistochemistry</p>  <p>Myoglobin in Human Heart. Myoglobin was detected in immersion fixed paraffin-embedded sections of human heart using Rabbit Anti-Human Myoglobin Monoclonal Antibody (Catalog # MAB97204) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cardiomyocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>	<p>Western Blot</p>  <p>Detection of Human Myoglobin by Western Blot. Western blot shows lysates of human heart tissue and human liver tissue (negative control). PVDF membrane was probed with 0.05 µg/mL of Rabbit Anti-Human Myoglobin Monoclonal Antibody (Catalog # MAB97204) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Myoglobin at approximately 16 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.

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.