

Datasheet for ABIN1326866 **Myoglobin ELISA Kit**

2 Publications



Overview

Quantity:	96 tests
Target:	Myoglobin (MB)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	The Myoglobin Blood Test ELISA is based on the principle of a solid phase enzyme-linked
	immunosorbent assay. The myoglobin assay system utilizes a unique monoclonal antibody
	directed against a distinct antigenic determinant on the myoglobin molecule. Mouse
	monoclonal anti-myoglobin antibody is used for solid phase immobilization (on the microtiter
	wells). A goat anti-myoglobin antibody is in the antibody-enzyme (horseradish peroxidase)
	conjugate solution. The test sample is allowed to react simultaneously with the two antibodies,
	resulting in the myoglobin molecules being sandwiched between the solid phase and enzyme-
	linked antibodies. After a 45 minute incubation at room temperature, the wells are washed with
	water to remove unbound labeled antibodies. A TMB (Tetramethyl-benzidine) Reagent is added
	and incubated for 20 minutes, resulting in the development of a blue color. The color
	development is stopped with the addition of Stop Solution changing the color to yellow. The
	concentration of myoglobin is directly proportional to the color intensity of the myoglobin blood
	test sample. Absorbance is measured spectrophotometrically at 450 nm.
Sample Type:	Blood
Analytical Method:	Quantitative

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN1326866 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Detection Method:

Colorimetric

Target Details

Target:	Myoglobin (MB)
Alternative Name:	Myoglobin (MB Products)
Background:	Myoglobin, a heme protein with a molecular weight of approximately 17,500 Daltons is found in
	both cardiac and skeletal muscle. Damage to either type of muscle following conditions such
	as trauma, ischemia, and diseases that cause myopathy, is associated with the release of
	myoglobin into serum. Specifically, following cardiac necrosis associated with myocardial
	infarction (MI), myoglobin is one of the first markers to rise above normal levels. Myoglobin
	levels increase measurably above baseline within 2-4 hours post-infarct, peaking at 9-12 hours,
	and returning to baseline within 24-36 hours. In the absence of skeletal muscle trauma or other
	factors associated with a non-cardiac related increase in circulating myoglobin, its levels have
	been used as an early marker for myocardial infarct. A number of reports suggest using the
	measurement of myoglobin as a diagnostic aid in ruling out myocardial infarction with negative
	predictive values of up to 100% reported at certain time periods after the onset of symptoms.9-
	15 Unlike the other cardiac enzymes such as creeatine kinase and the MB isoform (i.e., CK and
	CKMB) which do not reach serum levels until several hours post-infarction (approx. 19 hours),
	myoglobin levels can be expected to peak within 6 to 9 hours. The Myoglobin Enzyme
	Immunoassay provides a rapid, sensitive, and reliable myoglobin assay for the quantitative
	measurement of myoglobin in serum. The antibodies developed for the test will determine a
	minimal concentration of 5.0 ngml, and there is no cross-reactivity with related cardiac or
	skeletal enzymes.

Pathways:

Brown Fat Cell Differentiation

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Storage:	4 °C

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN1326866 | 07/26/2024 | Copyright antibodies-online. All rights reserved. Product cited in:

Townsend, Hoffman, Fragala, Jajtner, Gonzalez, Wells, Mangine, Fukuda, Stout: "TNF-? and TNFR1 responses to recovery therapies following acute resistance exercise." in: **Frontiers in physiology**, Vol. 6, pp. 48, (2015) (PubMed).

Kupchak, Kraemer, Hoffman, Phinney, Volek: "The impact of an ultramarathon on hormonal and biochemical parameters in men." in: **Wilderness & environmental medicine**, Vol. 25, Issue 3, pp. 278-88, (2014) (PubMed).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN1326866 | 07/26/2024 | Copyright antibodies-online. All rights reserved.