Datasheet for ABIN5518936

anti-MB antibody (N-Term)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	MB
Binding Specificity:	AA 3-35, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myoglobin(MB) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human Myoglobin (3-35aa LSDGEWQLVLNVWGKVEADIPGHGQEVLIRLFK), different from the related mouse sequence by three amino acids, and from the related rat sequence by six amino acids.
Sequence:	LSDGEWQLVL NVWGKVEADI PGHGQEVLIR LFK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Myoglobin(MB) detection. Tested with WB in Human. Gene Name: myoglobin Protein Name: Myoglobin

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	MB
Abstract:	MB Products
Background:	Myoglobin(MB) also known as PVALB, is a single-chain globular protein of 153 or 154 amino acids, containing a heme (iron-containing porphyrin) prosthetic group in the center around which the remaining apoprotein folds. It is a member of the globin superfamily and is expressed in skeletal and cardiac muscles. This gene is mapped to chromosome 22q11-q13. Myoglobin is released from damaged muscle tissue (rhabdomyolysis), which has very high concentrations of myoglobin. The released myoglobin is filtered by the kidneys but is toxic to the renal tubular epithelium and so may cause acute renal failure. Synonyms: Myoglobin, MB
Gene ID:	4151
UniProt:	P02144

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.
Restrictions:	For Research Use only

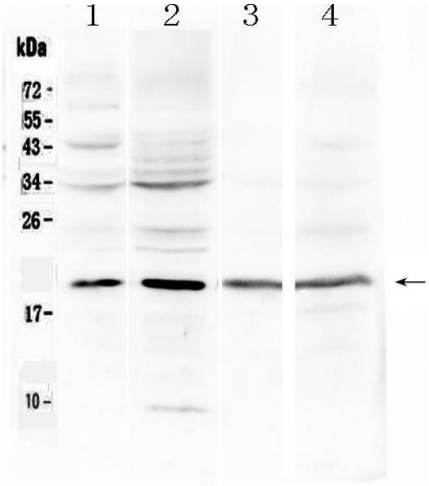
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1. Western blot analysis of Myoglobin using anti-Myoglobin antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysate, Lane 2: human Hela whole cell lysate, Lane 3: human HL-60 whole cell lysate, Lane 4: human Jurkat whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Myoglobin antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Myoglobin at approximately 20KD. The expected band size for Myoglobin is at 17KD.