

Product datasheet

Anti-MYH2 antibody [EPR5280] ab124937

Recombinant RabMAb

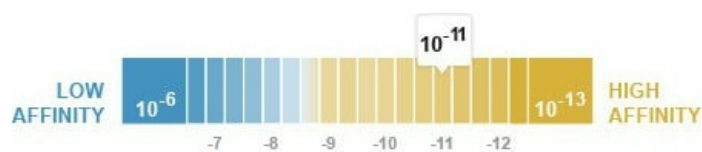
[7 References](#) [4 Images](#)

Overview

Product name	Anti-MYH2 antibody [EPR5280]
Description	Rabbit monoclonal [EPR5280] to MYH2
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human MYH2 aa 50-150. The exact sequence is proprietary.
Positive control	Mouse muscle, Rat muscle and Human trachea lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 6.90 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture
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	supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5280
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124937 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

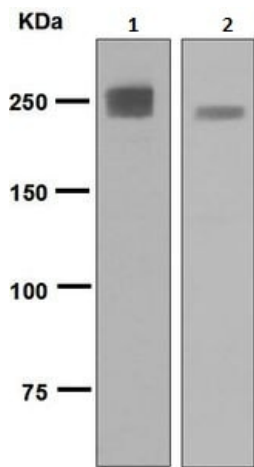
Application	Abreviews	Notes
WB		1/10000 - 1/50000. Detects a band of approximately 220 kDa (predicted molecular weight: 223 kDa).

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Muscle contraction. Required for cytoskeleton organization.
Involvement in disease	Defects in MYH2 are the cause of inclusion body myopathy type 3 (IBM3) [MIM:605637]. Hereditary inclusion body myopathies constitute a group of neuromuscular disorders characterized by slowly progressive distal and proximal weakness and a typical muscle pathology including rimmed vacuoles and filamentous inclusions. IBM3 is a variant of hereditary inclusion body myopathies and is characterized by autosomal dominant myopathy with joint contracture, ophthalmoplegia and rimmed vacuoles. Morphological analysis of muscle biopsies from patients indicate that the type 2A fibers frequently were abnormal, whereas other fiber types appeared normal.
Sequence similarities	Contains 1 IQ domain. Contains 1 myosin head-like domain.
Domain	The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils. Each myosin heavy chain can be split into 1 light meromyosin (LMM) and 1 heavy meromyosin (HMM). It can later be split further into 2 globular subfragments (S1) and 1 rod-shaped subfragment (S2).
Cellular localization	Cytoplasm > myofibril. Thick filaments of the myofibrils.

Images



Western blot - Anti-MYH2 antibody [EPR5280]
(ab124937)

All lanes : Anti-MYH2 antibody [EPR5280] (ab124937) at 1/10000 dilution

Lane 1 : Mouse muscle tissue lysate

Lane 2 : Rat muscle tissue lysate

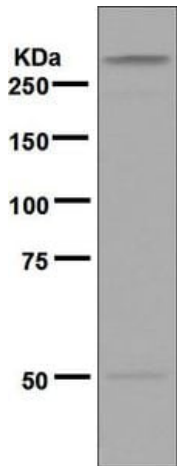
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti Rabbit IgG at 1/2000 dilution

Predicted band size: 223 kDa

Observed band size: 220 kDa



Western blot - Anti-MYH2 antibody [EPR5280]
(ab124937)

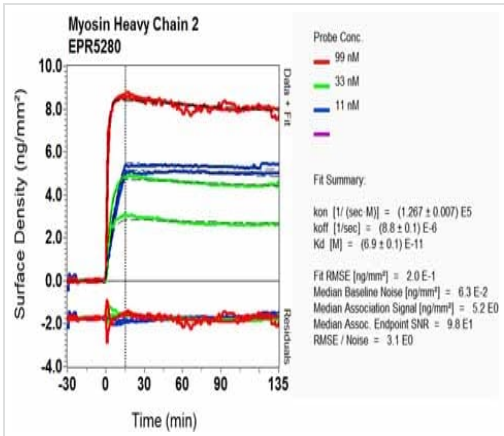
Anti-MYH2 antibody [EPR5280] (ab124937) at 1/10000 dilution +
Human trachea lysate at 10 µg

Secondary

HRP labelled Goat anti Rabbit IgG at 1/2000 dilution

Predicted band size: 223 kDa

Observed band size: 220 kDa



OI-RD Scanning - Anti-MYH2 antibody [EPR5280]
(ab124937)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-MYH2 antibody [EPR5280] (ab124937)

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