

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MYH6. The peptide immunogen sequence represents a region specific to MYH6 and not present in other MYH isoforms.
Source	Monoclonal Mouse IgG ₁ Clone # 940344
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human MYH6 peptide Accession # P13533
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The MYH6 gene encodes the alpha chain of cardiac myosin, a muscle motor protein with two regions that bind actin at aa 657-679 and 759-773. Defects in this gene cause atrial septal defect 3, hypertrophic cardiac myopathy and sick sinus syndrome. MYH6 participates in embryonic and adult heart development and muscle contraction. In adult heart, the beta chain isoform predominates in the ventricular tissue, while both isoforms are found in variable proportions in atrial tissue. Force development is much faster in atrial tissue and ATP consumption is much higher.

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