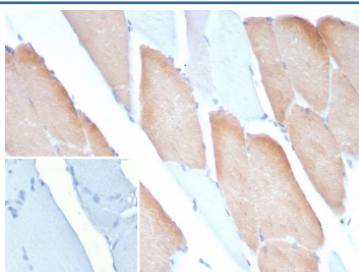


## MYH7 Antibody / Myosin 7 [clone MYH7/9183] (V5474)

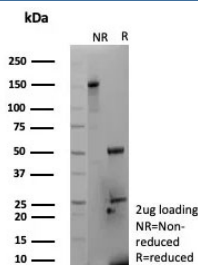
Catalog No.	Formulation	Size
V5474-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5474-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5474SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	MYH7/9183
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P12883
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This MYH7 antibody is available for research use only.



IHC staining of FFPE human skeletal muscle tissue with MYH7 antibody (clone MYH7/9183). Inset: PBS used in place of primary Ab (secondary Ab negative control).



SDS-PAGE analysis of purified, BSA-free MYH7 antibody (clone MYH7/9183) as confirmation of integrity and purity.

## Description

Myosin heavy chains are ubiquitous Actin-based motor proteins that convert the chemical energy derived from ATP hydrolysis into the mechanical energy that drives diverse motile processes in eukaryotic cells, including cytokinesis, vesicular transport and cellular locomotion. Muscle myosin is a heterohexamer consisting of two myosin heavy chains and two associated nonidentical pairs of myosin light chains. The seven myosin heavy chain isoforms that predominate in mammalian skeletal muscles include two developmental isoforms, MHC-embryonic (MYH3) and MHC-perinatal (MYH8); three adult skeletal muscle isoforms, MHC IIa (MYH2), MHC IIb (MYH4) and MHC IIx/d (MYH1); and MHC- $\gamma$ /slow (MYH7 or MHC- $\gamma$ ), which is also expressed in cardiac muscle. Research indicates that mutations of the MYH7 gene causes hypertrophic cardiomyopathy.

## Application Notes

Optimal dilution of the MYH7 antibody should be determined by the researcher.

## Immunogen

A recombinant fragment (within amino acids 1150-1350) of human Myosin 7 protein was used as the immunogen for the MYH7 antibody.

## Storage

Aliquot the MYH7 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.