ARG66752
anti-MYH11 / SMMHC antibody [SQab20185]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab20185] recognizes MYH11 / SMMHC
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Rabbit
Clonality	Monoclonal
Clone	SQab20185
Isotype	IgG
Target Name	MYH11 / SMMHC
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human MYH11 / SMMHC.
Conjugation	Un-conjugated
Alternate Names	Myosin-11; Myosin heavy chain, smooth muscle isoform; AAT4; SMMHC; FAA4; SMHC; Myosin heavy chain 11

Application Instructions

Application table

Application	Dilution
IHC-P	1:100 - 1:200

Application Note: IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Liomyoma tissue.

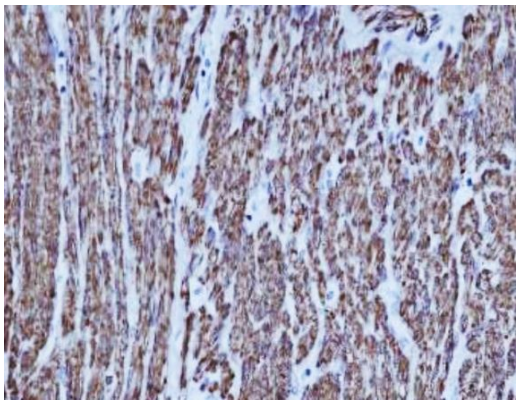
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MYH11
Gene Full Name	myosin, heavy chain 11, smooth muscle
Background	The protein encoded by this gene is a smooth muscle myosin belonging to the myosin heavy chain family. The gene product is a subunit of a hexameric protein that consists of two heavy chain subunits and two pairs of non-identical light chain subunits. It functions as a major contractile protein, converting chemical energy into mechanical energy through the hydrolysis of ATP. The gene encoding a human ortholog of rat NUDE1 is transcribed from the reverse strand of this gene, and its 3' end overlaps with that of the latter. The pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript that encodes a protein consisting of the first 165 residues from the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype. Alternative splicing generates isoforms that are differentially expressed, with ratios changing during muscle cell maturation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Function	Muscle contraction. [UniProt]
Calculated Mw	227 kDa
Cellular Localization	Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Thick filaments of the myofibrils. [UniProt]

Images



ARG66752 anti-MYH11 / SMMHC antibody [SQab20185] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human liomyoma tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66752 anti-MYH11 / SMMHC antibody [SQab20185] at 18°C - 25°C for 30 minutes.