SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-smooth muscle Myosin heavy chain 11 antibody

Catalog Number: SL22238R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	smooth muscle Myosin heavy chain 11
Immunogen:	KLH conjugated synthetic peptide derived from human smooth muscle Myosin heavy chain 11: 1910-1972/1972
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat)
Predicted MW.:	227kDa
Subcellular Location:	cytoplasmic The cell membrane
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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	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. **Subunit:** Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). **Subcellular Location:** Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Thick filaments of the myofibrils. **Tissue Specificity:** Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea. DISEASE: Note=A chromosomal aberration involving MYH11 is found in acute myeloid leukemia of M4EO subtype. Pericentric inversion inv(16)(p13;q22). The inversion produces a fusion protein consisting of the 165 N-terminal residues of CBF-beta (PEPB2) and the tail region of MYH11. Familial aortic aneurysm thoracic 4 (AAT4) [MIM:132900]: A disease characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. It is primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Contains 1 IQ domain. Contains 1 myosin head-like domain. **Database links:** **Entrez Gene:** 4629 Human **Entrez Gene:** 17880 Mouse **Entrez Gene:** 24582 Rat Omim: 160745 Human **SwissProt:** P35749 Human **SwissProt:** O08638 Mouse **SwissProt:** P35748 Rabbit Smooth muscle myosin heavy chain is a polypeptide with a molecular weight of 200 kDa and is a structural component of hexameric myosin. It is mainly used to label vascular and visceral smooth muscle cells as well as myoepithelial cells, and is considered a relatively specific and reliable marker for smooth muscle, contributing to the diagnosis and classification of

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SunLong Biotech Co.,LTD

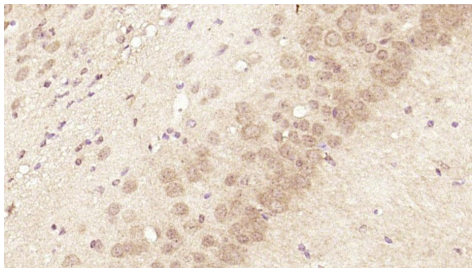
Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

	mesenchymal tumors. It can also be used for the detection of breast myoepithelial cells, aiding in the differential identification of carcinoma in situ and invasive carcinoma.

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (smooth muscle Myosin heavy chain 11) Polyclonal Antibody, Unconjugated (SL22238R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.