

IHCAb™ Myosin Heavy Chain, Smooth Muscle mouse mAb (BGT206)

Cat #: B-IMW6894

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

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.

Product Information

Applications/Dilution: IHC-p 1:100-500, IF 1:100-500

Isotype/Source: Mouse, Monoclonal/IgG1, Kappa

Specificity: The antibody can specifically recognize human Myosin Heavy Chain, Smooth Muscle (SMMHC) protein

Subcellular Location: Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Thick filaments of the myofibrils

Expression: Smooth muscle; expressed in the umbilical artery, bladder, esophagus and trachea. Isoform 1 is mostly found in slowly contracting tonic muscles

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.134% sodium azide

Storage: Store at -15°C to -25°C

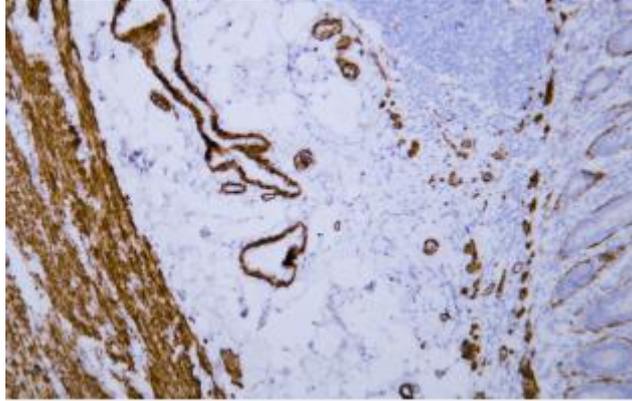


Fig.1. Human appendix tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC). Secondary Antibody was Biogradetech POLY™ Polymer HRP Goat Anti-Rabbit/Mouse IgG(H+L) Secondary Antibody (B-IMWRS11).

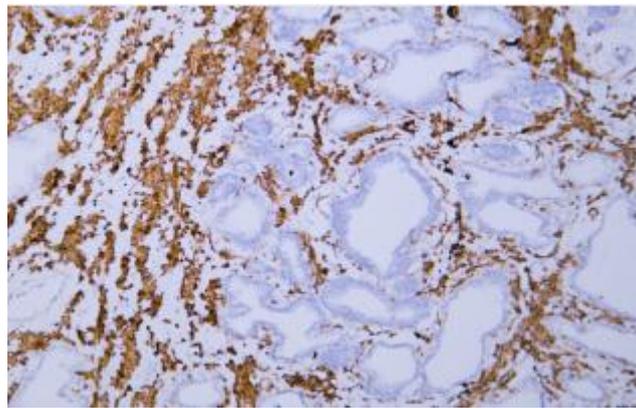


Fig.2. Human prostate tissue was stained with Anti-Myosin Heavy Chain, Smooth Muscle (SMMHC)Antibody. Secondary Antibody was Biogradetech POLY™ Polymer HRP Goat Anti-Rabbit/Mouse IgG(H+L) Secondary Antibody (B-IMWRS11).

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.