

RecomAb™

# MYH11 recombinant monoclonal antibody, clone R07-7F7

Catalog # RAB06452      Size 100 uL

## Specification

|                      |   |
|----------------------|---|
| Product Description  | Rabbit recombinant monoclonal antibody raised against human MYH11.  |
| Antibody Species     | Rabbit  |
| Immunogen            | Original antibody is raised against protein corresponding to full length human MYH11.   |
| Theoretical MW (kDa) | Calculated MW: 227 k  |
| Reactivity           | Human   |
| Form                 | Liquid  |
| Purification         | Affinity chromatography   |
| Isotype              | IgG   |
| Recommend Usage      | Immunohistochemistry (1:50-1:100)<br>Immunofluorescence(1:50-1:200)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end use. |
| Storage Buffer       | In PBS, 150mM NaCl, pH 7.4 (50% glycerol and 0.02% sodium azide)  |
| Storage Instruction  | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.  |
| Note                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.  |

## Applications

- Western Blot
- Immunohistochemistry

- Immunofluorescence

## Gene Info — MYH11

|                    |  |
|--------------------|--|
| Entrez GeneID      | <a href="#">4629</a>   |
| Protein Accession# | <a href="#">P35749</a>   |
| Gene Name          | MYH11  |
| Gene Alias         | AAT4, DKFZp686D10126, DKFZp686D19237, FAA4, FLJ35232, MGC126726, MGC32963, S MHC, SMMHC  |
| Gene Description   | myosin, heavy chain 11, smooth muscle  |
| Omim ID            | <a href="#">132900</a> <a href="#">160745</a>  |
| Gene Ontology      | <a href="#">Hyperlink</a>  |
| Gene Summary       | <p>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]</p> |
| Other Designations | myosin, heavy polypeptide 11, smooth muscle smooth muscle myosin heavy chain 11  |

## Pathway

- [Tight junction](#)
- [Vascular smooth muscle contraction](#)

## Disease

- [Adenocarcinoma](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Ductus Arteriosus](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)