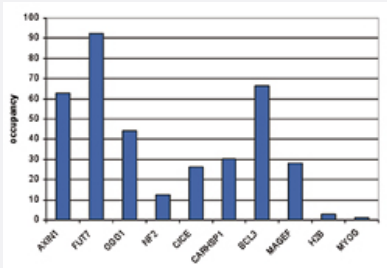


MYH11 polyclonal antibody

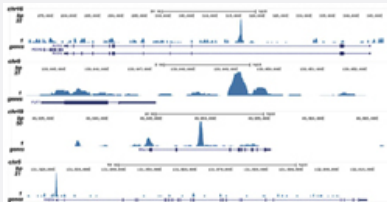
Catalog # PAB31277 Size 100 uL

Applications



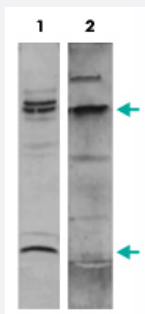
ChIP

ChIP assays were performed using ME-1 cells. Sheared chromatin from 1.5 million cells and 5 ul of antibody were used per ChIP experiment. QPCR was performed using primers specific for the genes indicated. The figure shows the relative occupancy, calculated as the ratio + control/background for which the MYOG gene was used.



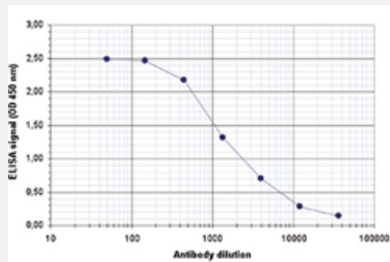
ChIP-Seq

The figure shows the signal in 4 genomic regions surrounding the AXIN1, FUT7, BCL3 and RAD50 positive control genes.



Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of nuclear extracts of ME-1 cells.



Enzyme-linked Immunoabsorbent Assay

ELISA is a quantitative method used to determine the titer of the antibody using a serial dilution of antibody against human MYH11. The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:1900.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MYH11.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human MYH11.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Whole antiserum
Recommend Usage	ELISA (1:200) Western Blot (1:1000) ChIP (5 ul/CHIP) The optimal working dilution should be determined by the end user.
Storage Buffer	In Whole antiserum (0.05% sodium azide).
Storage Instruction	Store at -20°C. For long term storage store at -80°C. 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

● ChIP

ChIP assays were performed using ME-1 cells. Sheared chromatin from 1.5 million cells and 5 ul of antibody were used per ChIP experiment. QPCR was performed using primers specific for the genes indicated. The figure shows the relative occupancy, calculated as the ratio + control/background for which the MYOG gene was used.

- ChIP-Seq

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Western Blot (Cell lysate) analysis of nuclear extracts of ME-1 cells.

- Enzyme-linked Immunoabsorbent Assay

ELISA is a quantitative method used to determine the titer of the antibody using a serial dilution of antibody against human MYH11. The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:1900.

Gene Info — MYH11

Entrez GeneID [4629](#)

Protein Accession# [P35749](#)

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 [132900](#) [160745](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

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](#)