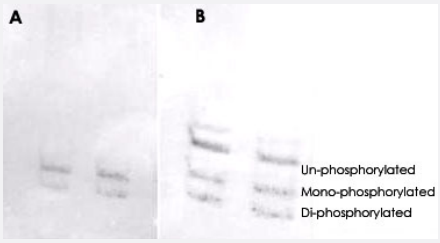
MYL6 (phospho S19/20) polyclonal antibody

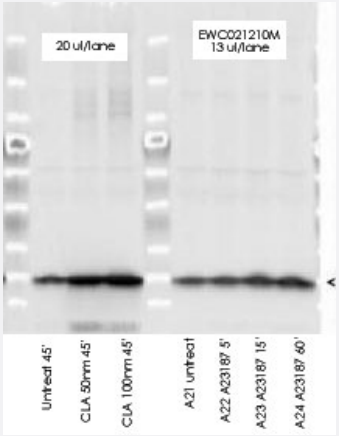
Catalog # PAB9961 Size 100 ug

Applications



Western Blot (Cell lysate)

MYL6 (phospho S19/20) polyclonal antibody (Cat # PAB9961) was used at a 1 : 1000 dilution to detect myosin light chain by Western blot on NIH/3T3 cell lysates.
A standard urea/glycerol gel without SDS was used to separate phospho forms of regulatory light chain according to mass to charge ratios.
In Panel A, reactivity of MYL6 (phospho S19/20) polyclonal antibody (Cat # PAB9961) is shown.
In Panel B, reactivity of commercially available pan reactive antibody that detects both unphosphorylated and phosphorylated forms of regulatory light chain is shown.The phosphospecific antibody detects both monophosphorylated (pSer20 Mono-P-RLC) and diphosphorylated (pThr19-pSer20 Di-P-RLC) regulatory light chain.
Personal communication. J. Stull. UT Southwestern Medical Center.



Western Blot (Cell lysate)

MYL6 (phospho S19/20) polyclonal antibody (Cat # PAB9961) was used at a 1 : 5000 dilution to detect myosin light chain by Western blot.
Either 13 or 20 uL of a mouse cardiac myocyte lysate was loaded on a 4-20% Criterion gel for SDS-PAGE. Samples were either mock-treated or CLA-treated, as indicated. After washing, a 1 : 5,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development using Amersham's substrate system.
Other detection methods will yield similar results.
Data courtesy of the Alliance for Cellular Signaling (http://www.signaling-gateway.org).

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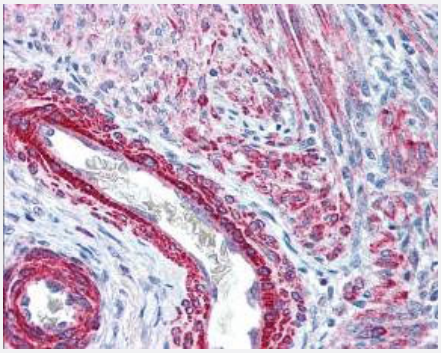

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining with MYL6 (phospho S19/20) polyclonal antibody (Cat # PAB9961) was used at 2.5 ug/mL to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides.
This image shows strong staining of both vascular and myometrial smooth muscle cells of the uterus.
Tissue was formalin-fixed and paraffin embedded.
The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of MYL6.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S19/S20 of human MYL6.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is phosphospecific and detect monophosphorylated and diphosphorylated forms of the protein. This phosphospecific polyclonal antibody is specific to the phosphorylated pS19/pS20 form of the protein, depending on the source origin of the protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:120000-1:135000) Western Blot (1:1000-1:5000) Immunohistochemistry (2.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MYL6

Entrez GeneID	4637
Gene Name	MYL6
Gene Alias	ESMLC, LC17-GI, LC17-NM, LC17A, LC17B, MLC1SM, MLC3NM, MLC3SM
Gene Description	myosin, light chain 6, alkali, smooth muscle and non-muscle
Omim ID	609931

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Gene Ontology	Hyperlink
Gene Summary	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two no nphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain that is expressed in smooth muscle and non-muscle tissues. Genomic sequences representing several pseudogenes have been described and two transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq
Other Designations	myosin, light polypeptide 6, alkali, smooth muscle and non-muscle|smooth muscle and non-muscl e myosin alkali light chain

Pathway

- Vascular smooth muscle contraction

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