

MYLK monoclonal antibody

Catalog: MB22937

Host: Mouse

Reactivity: Human, Mouse

BackGround:

This gene, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. This gene encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

210kDa

Swiss-Prot:

Q15746

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200-1/1000 IF:1/200 - 1/1000
FC:1/200-1/400

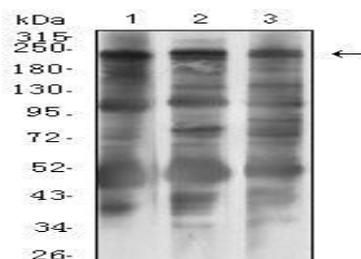
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

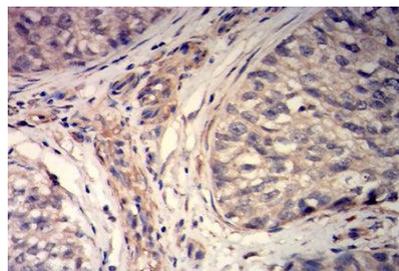
Isotype:

Mouse IgG1

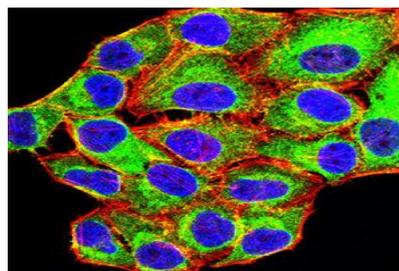
DATA:



Western blot analysis using MYLK mouse mAb against PC-3 (1), C2C12 (2), and HeLa (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using MYLK mouse mAb with DAB staining.



Immunofluorescence analysis of HeLa cells using MYLK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

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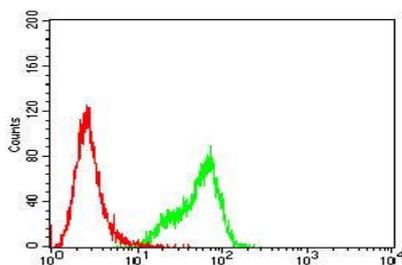
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Flow cytometric analysis of hela cells using MYLK mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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