Desmin monoclonal antibody

Catalog: MB66908 Host: Mouse Reactivity: Human

BackGround:

The cytoskeleton consists of three types of cytosolic fibers: microfilaments , intermediate filaments and microtubules. Major types of intermediate filaments are distinguished and expressed in particular cell types: cytokeratins , glial fibrillary acidic protein or GFAP, desmin , vimentin and neurofilaments . GFAP and vimentin form intermediate filaments in astroglial cells and modulate their motility and shape . In particular, vimentin filaments are present at early developmental stages, while GFAP filaments are characteristic of differentiated and mature brain astrocytes. Thus, GFAP is commonly used as a marker for intracranial and intraspinal tumors arising from astrocytes . Vimentin is present in sarcomas, but not carcinomas, and its expression is examined relative to other markers to distinguish between the two forms of neoplasm . Desmin is a myogenic marker expressed in early development that forms a network of filaments that extends across the myofibril and surrounds Z discs. The desmin cytoskeleton provides a connection among myofibrils, organelles and the cytoskeleton. Desmin knockout mice develop cardiomyopathy, skeletal and smooth muscle defects . In humans, desmin related myopathies might be caused by mutations in the corresponding desmin gene or in proteins with which desmin interacts, including 伪B-crystallin and synemin. Disorganized desmin filaments and the accumulation of protein aggregates comprised predominantly of desmin characterize desmin-related myopathies .

Product:

Mouse IgM kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 57 kDa

Swiss-Prot:

P17661

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000)

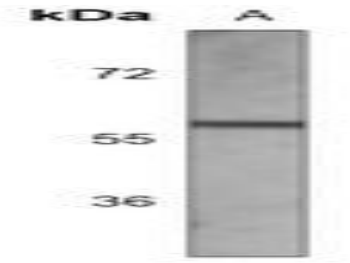
Storage&Stability:

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

Specificity:

Recognizes endogenous levels of Desmin protein.

DATA:



Western blot analysis of Desmin expression in CEM (A) whole cell lysates.

Note:

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

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