

Fibronectin monoclonal antibody

Catalog: MB65924

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Fibronectin is a multi-domain extracellular matrix (ECM) protein. The protein uses its different domains to bind distinct ECM components such as collagens, growth factors, as well as cell surface integrins to carry on its functions. Fibronectin has been implicated in many essential biological processes including tissue repair, fibrosis, and tumor development. There are many fibronectin isoforms. Plasma fibronectin is synthesized by hepatocytes and exists as a compact, inactive conformation in the blood stream. It is a major component of fibrin clots. Upon binding to integrins or other cell surface receptors, fibronectin switches to an extended conformation, and exposes its function domains to activated extracellular matrix assembly. Fibroblast, endothelial cells, as well as many types of cancer cells have also been shown to synthesize cellular fibronectin isoforms. Among them, the EDA or EDB isoforms are particularly highly expressed during fibrosis and cancer development, and are potential diagnostic and therapeutic targets.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 272 kDa

Swiss-Prot:

P02751

Purification&Purity:

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

Applications:

WB (1/1000 - 1/2000), IHC (1/50 - 1/200), IF/ICC (1/50 - 1/200)

Storage&Stability:

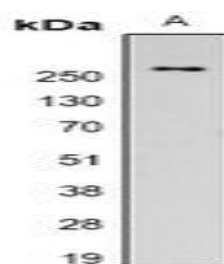
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

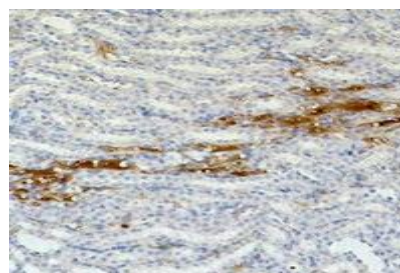
Specificity:

Recognizes endogenous levels of Fibronectin protein.

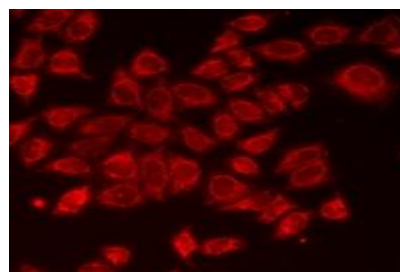
DATA:



Western blot analysis of Fibronectin expression in HeLa (A) whole cell lysates.



Immunohistochemical analysis of Fibronectin staining in mouse kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Fibronectin staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS

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PRODUCT DATA SHEET

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for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

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

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