Fibronectin. Mouse Monoclonal Antibody

BACKGROUND
Fibronectins are a family of plasma and extracellular matrix glycoproteins that contain multiple sites for various ligands and cells. The region of fibronectin that mediates cell adhesion in a majority of cell types is in the carboxy terminal domain and involves the binding of the Arg-Gly-Asp (RGD) sequence to a specific polypeptide cell surface receptor. Although the mechanisms of fibronectin extracellular matrix assembly are not well understood, specific antibodies have been used to determine the domains involved in matrix assembly.

This antibody stains the extracellular adhesive glycoprotein of fibronectin in connective tissues and vessels. It does not recognize the soluble dimeric form of fibronectin (plasma fibronectin) but strongly stains matrix fibronectin in tissues. Animal biodistribution experiments have shown that after intravenous administration, this antibody localizes to tumor vessels where it binds to the underlying basement membrane. The antigen is not accessible in normal tissues to circulating antibody indicating that this antibody can be used to target tumor vessels specifically in vivo.

IMMUNOGEN
Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with T-cell lymphoma biopsy and mouse myeloma cells.

POSITIVE CONTROL/TISSUE EXPRESSION

COMMENTS
Antibody can be used for staining of human and mouse frozen and paraffin-embedded tissue sections. Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER
X1263M

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Mouse Clone EP5

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
See vial for concentration

ISOTYPE
IgG1

APPLICATIONS
Immunohistochemistry (frozen and paraffin)

SPECIES REACTIVITY
Human, Mouse

ACCESSION NUMBER
P02751, Human
PURIFICATION
Protein A/G Chromatography

SHIP CONDITIONS
Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER
Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

STABILITY
Products are stable for one year from purchase when stored properly

REFERENCES


PRODUCT SPECIFIC REFERENCES