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FN1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1689a

Product Information

Application	WB, IHC, FC, E
Primary Accession	P02751
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2F4
Isotype	IgG1
Calculated MW	272320
Description	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants. However, the full-length nature of some variants has not been determined.
Immunogen	Purified recombinant fragment of human FN1 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2335
Other Names	Fibronectin, FN, Cold-insoluble globulin, CIG, Anastellin, Ugl-Y1, Ugl-Y2, Ugl-Y3, FN1, FN
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FN1 (HGNC:3778)

Synonyms	FN
Function	Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin (PubMed:3024962, PubMed:3593230, PubMed:3900070, PubMed:7989369). Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape (PubMed:3024962, PubMed:3593230, PubMed:3900070, PubMed:7989369). Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization (By similarity). Participates in the regulation of type I collagen deposition by osteoblasts (By similarity). Acts as a ligand for the LILRB4 receptor, inhibiting FCGR1A/CD64-mediated monocyte activation (PubMed:34089617).
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted {ECO:0000250|UniProtKB:P11276}
Tissue Location	Expressed in the inner limiting membrane and around blood vessels in the retina (at protein level) (PubMed:29777959) Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix. Ugl-Y1, Ugl-Y2 and Ugl-Y3 are found in urine (PubMed:17614963).

References

Pancreas. 2009 Oct;38(7):804-10. J Biol Chem. 2009 Sep 18;284(38):25879-88.

Images

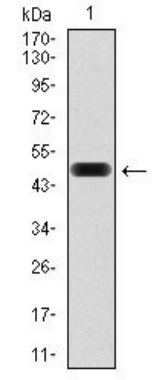


Figure 1: Western blot analysis using FN1 mAb against human FN1 (AA: 1965-2176) recombinant protein. (Expected MW is 49.6 kDa)

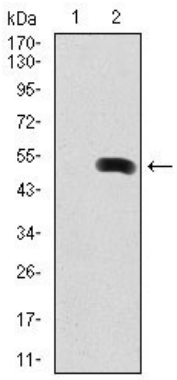


Figure 2: Western blot analysis using FN1 mAb against HEK293 (1) and FN1 (AA: 1965-2176)-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using FN1 mouse mAb with DAB staining.

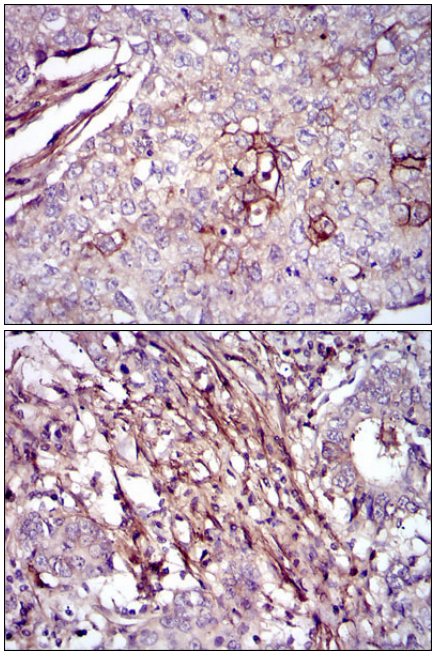


Figure 4: Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using FN1 mouse mAb with DAB staining.

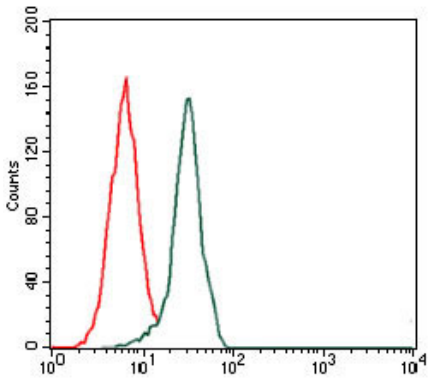


Figure 5: Flow cytometric analysis of HeLa cells using FN1 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.