

FN1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1689a

Specification

FN1 Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | E, WB, IHC, FC |
| Primary Accession | P02751 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 |
| Calculated MW | 262.6kDa KDa |

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.

FN1 Antibody - Additional Information

Gene ID 2335

Other Names

Fibronectin, FN, Cold-insoluble globulin, CIG, Anastellin, Ugl-Y1, Ugl-Y2, Ugl-Y3, FN1, FN

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400

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.

FN1 Antibody - 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](http://www.uniprot.org/citations/3024962), PubMed:[3593230](http://www.uniprot.org/citations/3593230), PubMed:[3900070](http://www.uniprot.org/citations/3900070), PubMed:[7989369](http://www.uniprot.org/citations/7989369)). Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape (PubMed:[3024962](http://www.uniprot.org/citations/3024962), PubMed:[3593230](http://www.uniprot.org/citations/3593230), PubMed:[3900070](http://www.uniprot.org/citations/3900070), PubMed:[7989369](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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).

FN1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

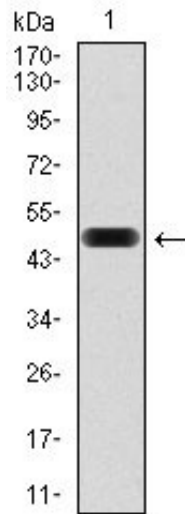
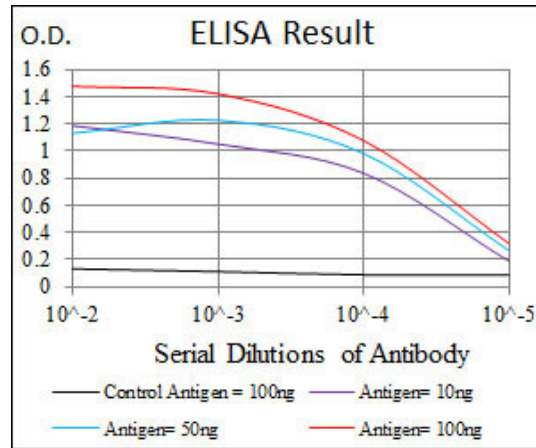


Figure 1: Western blot analysis using FN1 mAb against human FN1 (AA: 1965-2176) recombinant protein. (Expected MW is 49.6 kDa)

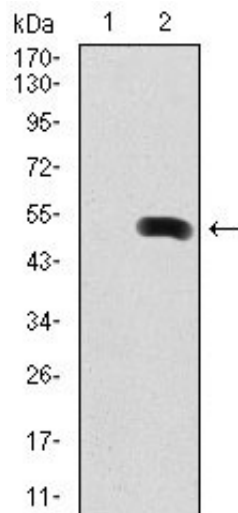


Figure 2: Western blot analysis using FN1 mAb against HEK293 (1) and FN1 (AA: 1965-2176)-hlgGfc transfected HEK293 (2) cell lysate.

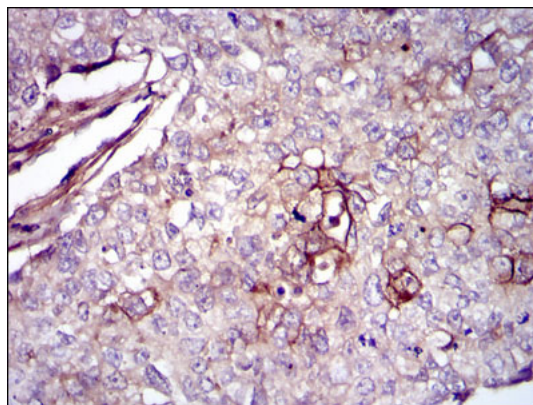


Figure 3: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using FN1 mouse mAb with DAB staining.

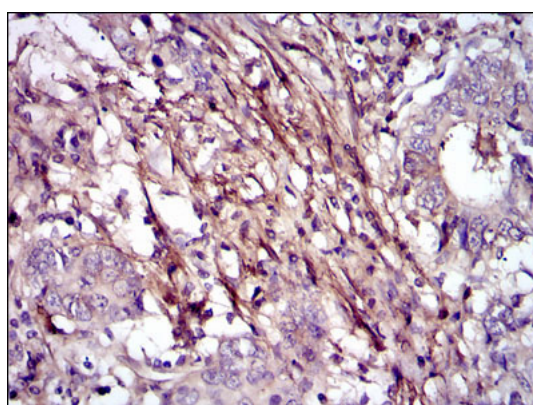


Figure 4: Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using FN1 mouse mAb with DAB staining.

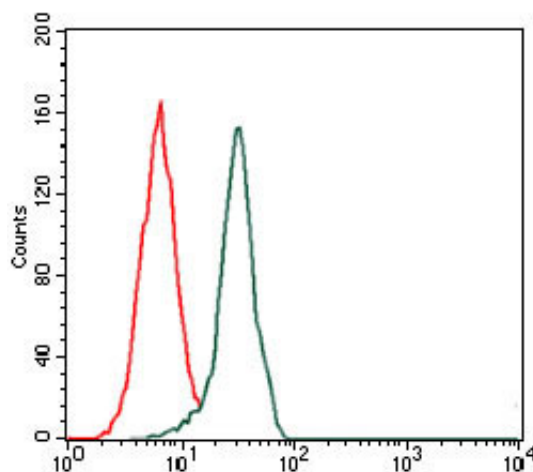


Figure 5: Flow cytometric analysis of HeLa cells using FN1 mouse mAb (green) and negative control (red).

FN1 Antibody - References

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