

# Fibronectin Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM539 ]

Catalog # AH10465

## Product Information

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<b>Application</b>	IF, FC, IHC-P
<b>Primary Accession</b>	<a href="#">P02751</a>
<b>Other Accession</b>	<a href="#">2335</a> , <a href="#">203717</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	SPM539
<b>Calculated MW</b>	272320

## Additional Information

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<b>Gene ID</b>	2335
<b>Other Names</b>	Fibronectin, FN, Cold-insoluble globulin, CIG, Anastellin, Ugl-Y1, Ugl-Y2, Ugl-Y3, FN1, FN
<b>Application Note</b>	IF~~1:50~200 FC~~1:10~50 IHC-P~~N/A
<b>Format</b>	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	Fibronectin Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	FN1 ( <a href="#">HGNC:3778</a> )
<b>Synonyms</b>	FN
<b>Function</b>	Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin (PubMed: <a href="#">3024962</a> , PubMed: <a href="#">3593230</a> , PubMed: <a href="#">3900070</a> , PubMed: <a href="#">7989369</a> ). Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape (PubMed: <a href="#">3024962</a> , PubMed: <a href="#">3593230</a> , PubMed: <a href="#">3900070</a> , PubMed: <a href="#">7989369</a> ). 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).

## Background

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Fibronectin is a dimeric glycoprotein of 440kDa, which is present in cells, extracellular matrix, and blood. It possesses at least four binding sites for collagen, glycosaminoglycans, transglutaminase, and a cell surface receptor. Fibronectin is involved in cell adhesion, tissue organization, and wound healing. This MAb is directed against the peptide core and reacts with both the plasma and cellular forms of fibronectin. It blocks the fibronectin-mediated cell attachment not by disrupting the collagen-fibronectin interaction, but by interfering with the attachment of fibronectin to its receptor on the cell surface.

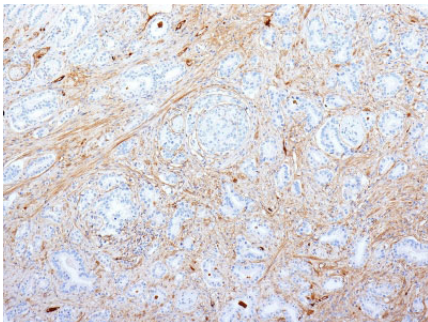
## References

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Schoen RC, et. al. Hybridoma, 1982, 1(2):99-108

## Images

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Formalin-fixed, paraffin-embedded human Pancreatic Adenocarcinoma stained with Fibronectin Monoclonal Antibody (SPM539).

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