ARG66162
anti-Fibronectin antibody

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Fibronectin
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Target Name	Fibronectin
Species	Human
Immunogen	Synthetic peptide from Human Fibronectin
Conjugation	Un-conjugated
Alternate Names	ED-B; CIG; GFND; Cold-insoluble globulin; FNZ; LETS; GFND2; Fibronectin; MSF; FINC; FN

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:300
WB	1:1000 - 1:2000

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

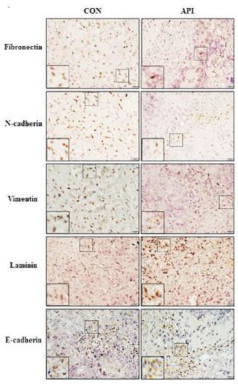
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 14268 Mouse GeneID: 2335 Human Swiss-port # P02751 Human Swiss-port # P11276 Mouse
Gene Symbol	FN1
Gene Full Name	fibronectin 1
Background	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. [provided by RefSeq, Jul 2008]
Function	Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts. Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer, named superfibronectin, exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth, angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30346 Myofibroblast / Fibrosis Antibody Panel Related products: Fibronectin antibodies; Fibronectin ELISA Kits; Fibronectin Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New antibody panels for Myofibroblasts and CAFs
Calculated Mw	272 kDa
PTM	Sulfated. It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated. Forms covalent cross-links mediated by a transglutaminase, such as F13A or TGM2, between a glutamine and the epsilon-amino group of a lysine residue, forming homopolymers and heteropolymers (e.g. fibrinogen-fibronectin, collagen-fibronectin heteropolymers). Phosphorylated by FAM20C in the extracellular medium. Proteolytic processing produces the C-terminal NC1 peptide, anastellin. Some lysine residues are oxidized to allysine by LOXL3, promoting fibronectin activation and matrix formation.

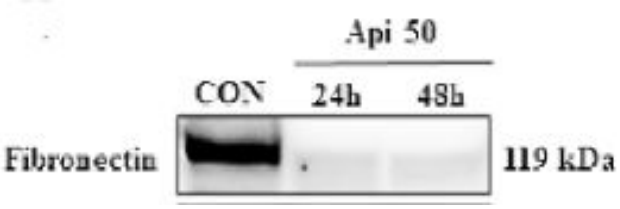
Images



ARG66162 anti-Fibronectin antibody IHC-P image

Immunohistochemistry: C33A stained with ARG66162 anti-Fibronectin antibody, ARG22587 anti-N Cadherin antibody [13A9] , ARG66199 anti-Vimentin antibody [SQab1721] , ARG59198 anti-Laminin antibody and ARG66195 anti-E Cadherin antibody [SQab1717] .

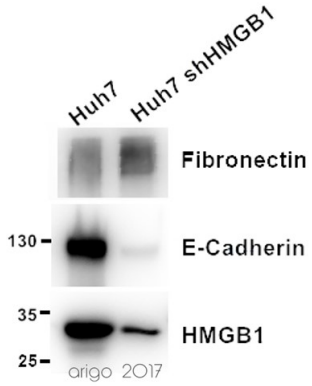
From Chen YH et al. Cancers (Basel)- (2022), doi: 10.3390/cancers14071824, Fig. 6. E.



ARG66162 anti-Fibronectin antibody WB image

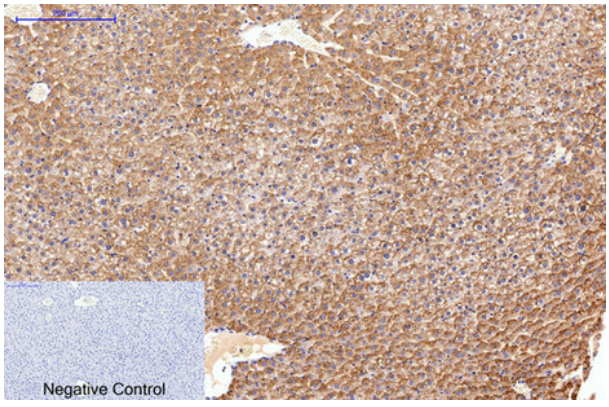
Western blot: Hela stained with ARG66162 anti-Fibronectin antibody.

From Chen YH et al. Cancers (Basel)- (2022), doi: 10.3390/cancers14071824, Fig. 5. A.



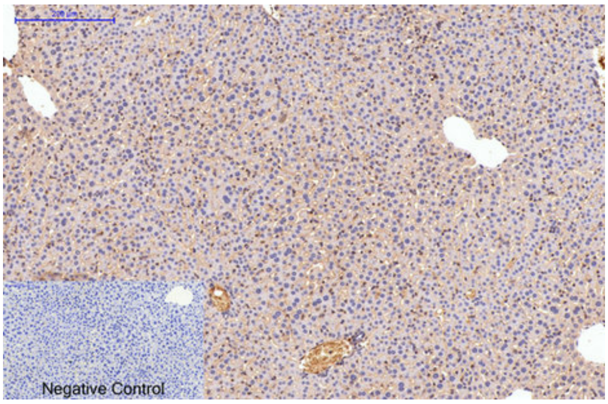
ARG66162 anti-Fibronectin antibody WB image

Western blot: 20 µg of Huh7 and Huh7 shHMGB1 cell lysates stained with ARG66162 anti-Fibronectin antibody (1:1000), ARG55914 anti-E-cadherin antibody (1:1000) and ARG65636 anti-HMGB1 antibody (1:2000).



ARG66162 anti-Fibronectin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat liver tissue stained with ARG66162 anti-Fibronectin antibody at 1:200 (4°C, overnight). Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0) for 20 min. Secondary antibody was diluted at 1:200 (RT, 30min). Negative control: Secondary antibody only.



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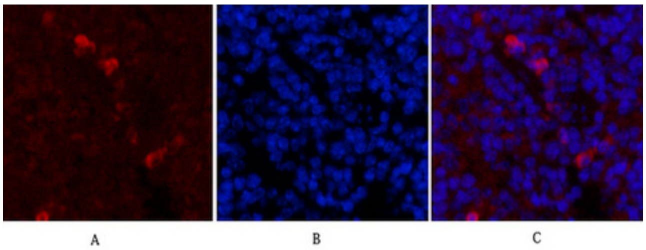
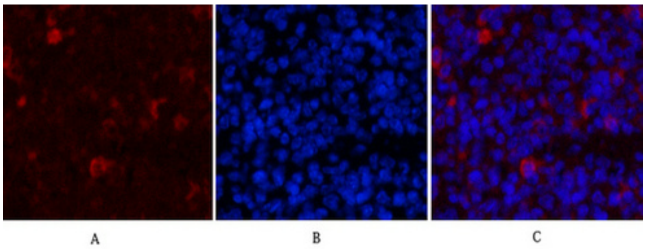


ARG66162 anti-Fibronectin antibody IHC image

Immunohistochemistry: Mouse spleen tissue stained with ARG66162 anti-Fibronectin antibody (red) at 1:200 (4°C, overnight). Picture A: Target. Picture B: DAPI. Picture C: merge of A and B.



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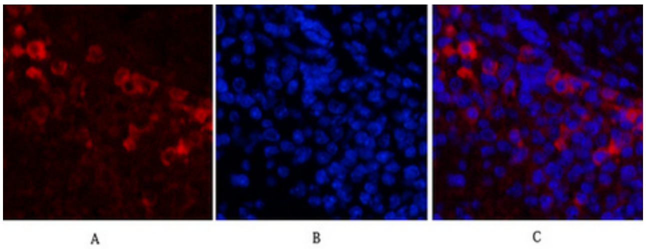

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