

Datasheet for ABIN967728
anti-Fibronectin antibody



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Overview

Quantity:	50 µg
Target:	Fibronectin
Reactivity:	Human, Mouse, Rat, Cow, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Fibronectin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human Fibronectin
Clone:	10-Fibronectin
Isotype:	IgG1 kappa
Cross-Reactivity:	Cow (Bovine), Chicken, Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 5. For fluorochrome spectra and suitable instrument settings, please refer to us.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	Fibronectin
Abstract:	Fibronectin Products
Background:	<p>The 240 kDa dimeric fibronectin protein exists in two forms: a soluble protomer in body fluids and an insoluble multimer in the extracellular matrix. The latter is the primary functional form and creates a substrate for cell migration, a role which makes fibronectin vital to embryogenesis and wound response. Fibronectin mediates cytoskeletal organization, cell attachment, and cellular signaling through interactions with cellular receptors. Although various isoforms of fibronectin are derived by alternative splicing, they share a common N-terminus which is a critical region for cell surface binding in an initial step of multimer assembly. Further polymerization steps are regulated by fibronectin/integrin interactions and result in generation of the complex fibrils that constitute the fibronectin matrix.</p> <p>Synonyms: FN, LETS</p>
Molecular Weight:	240 kDa

Application Details

Comment:	Related Products: ABIN968533, ABIN967389
Restrictions:	For Research Use only

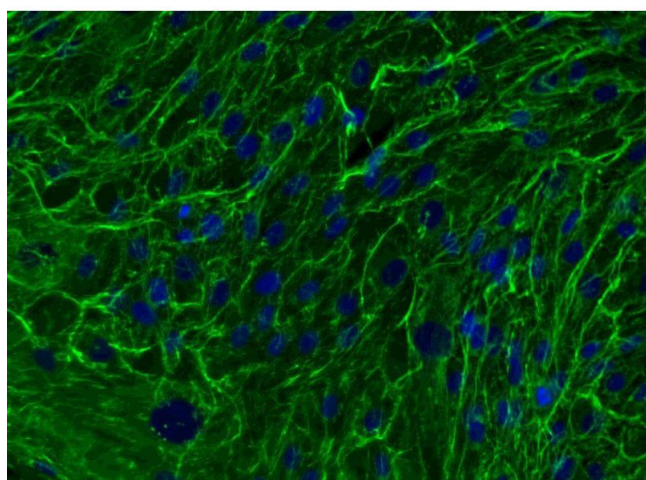
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

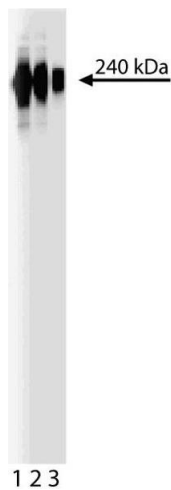
- Product cited in:
- Danen, Sonneveld, Brakebusch, Fassler, Sonnenberg: "The fibronectin-binding integrins $\alpha 5 \beta 1$ and $\alpha v \beta 3$ differentially modulate RhoA-GTP loading, organization of cell matrix adhesions, and fibronectin fibrillogenesis." in: **The Journal of cell biology**, Vol. 159, Issue 6, pp. 1071-86, (2002) ([PubMed](#)).
- Rhee, Sen, Lu, Wu, Leoni, Rubin, Corr, Carson: "Wnt and frizzled receptors as potential targets for immunotherapy in head and neck squamous cell carcinomas." in: **Oncogene**, Vol. 21, Issue 43, pp. 6598-605, (2002) ([PubMed](#)).
- Zuk, Bonventre, Brown, Matlin: "Polarity, integrin, and extracellular matrix dynamics in the postischemic rat kidney." in: **The American journal of physiology**, Vol. 275, Issue 3 Pt 1, pp. C711-31, (1998) ([PubMed](#)).
- Chen, Mosher: "Formation of sodium dodecyl sulfate-stable fibronectin multimers. Failure to detect products of thiol-disulfide exchange in cyanogen bromide or limited acid digests of stabilized matrix fibronectin." in: **The Journal of biological chemistry**, Vol. 271, Issue 15, pp. 9084-9, (1996) ([PubMed](#)).
- Sechler, Takada, Schwarzbauer: "Altered rate of fibronectin matrix assembly by deletion of the first type III repeats." in: **The Journal of cell biology**, Vol. 134, Issue 2, pp. 573-83, (1996) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of Fibronectin in mesenchymal stem cells (MSC). MSC (Lonza), passage 6, grown in BD Mosaic™ hMSC Serum Free Cell Culture Environment, were fixed in BD Cytofix™ Fixation Buffer, permeabilized with 0.1% Triton™ X-100 and stained with mouse anti-Fibronectin monoclonal antibody (ABIN967728, pseudo-colored green) at 2.5 µg/ml. Counter-staining of cell nuclei was with DAPI (pseudo-colored blue). The images were captured on a BD Pathway™ 435 Cell Analyzer and



merged using BD Attovision™ Software.

Western Blotting

Image 2. Western blot analysis of Fibronectin. A-431 (ATCC CRL-1555) cell lysate was blotted at the following dilutions: Lane 1: 1:5000, Lane 2: 1:10,000, Lane 3: 1:20,000.