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Datasheet for ABIN967728  
**anti-Fibronectin antibody**

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### Overview

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

### 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"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>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.</li><li>5. For fluorochrome spectra and suitable instrument settings, please refer to us.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

## Product Details

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chromatography.

## Target Details

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Target: Fibronectin

Abstract: [Fibronectin Products](#)

Background: 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.

Synonyms: FN, LETS

Molecular Weight: 240 kDa

## Application Details

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Comment: Related Products: ABIN968533, ABIN967389

Restrictions: For Research Use only

## Handling

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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.

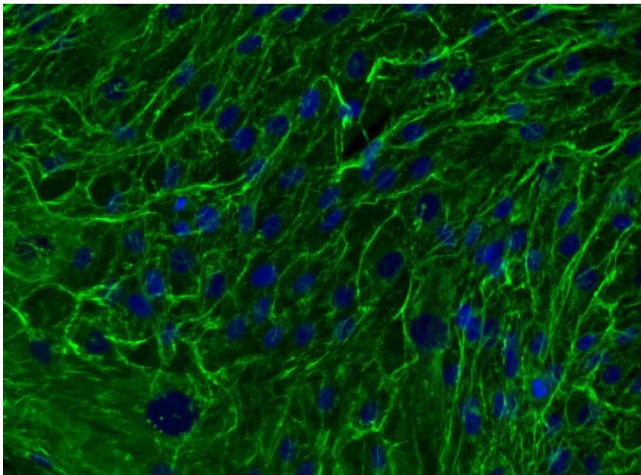
## Publications

Product cited in:

Durkin, Guo, Fryrear, Mihaylova, Gupta, Belgnaoui, Haoudi, Kupfer, Semmes: "HTLV-1 Tax oncoprotein subverts the cellular DNA damage response via binding to DNA-dependent protein kinase." in: **The Journal of biological chemistry**, Vol. 283, Issue 52, pp. 36311-20, (2008) ([PubMed](#)).

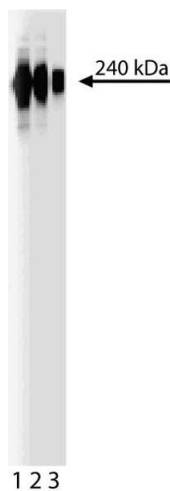
Huston, Lynch, Mohamed, Collins, Hill, MacLeod, Krause, Baillie, Houslay: "EPAC and PKA allow cAMP dual control over DNA-PK nuclear translocation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 105, Issue 35, pp. 12791-6, (2008) ([PubMed](#)).

## 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.