

Datasheet for ABIN967725  
**anti-FGF2 antibody (AA 1-155)**



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## Overview

Quantity:	50 µg
Target:	FGF2
Binding Specificity:	AA 1-155
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FGF2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

## Product Details

Immunogen:	Human bFGF aa. 1-155
Clone:	6-basic FGF
Isotype:	IgG2a
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken
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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>3. 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>4. Please refer to us for technical protocols.</li></ol>

## Product Details

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

## Target Details

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**Target:** FGF2

**Alternative Name:** basic FGF ([FGF2 Products](#))

**Background:** Basic Fibroblast Growth Factor (bFGF) is a family member of the cell-differentiating and growth promoting factors. Basic FGF exists as multiple isoforms ranging from 18-24kDa that are derived from a single mRNA species under unique translational conditions. The 18kDa isoform is primarily cytosolic, but is also secreted and may form reservoirs of bFGF in the extracellular matrix. In contrast, the larger isoforms are predominantly nuclear. At the cellular level, bFGF is a potent mitogen and promotes cell survival by inhibiting apoptosis. At the tissue level, it is involved in wound repair and induces angiogenesis. In addition, bFGF is a significant target in cancer research because it is over-expressed in some cancers and may enhance a tumor's metastatic potential.

**Molecular Weight:** 18-24 kDa

**Pathways:** [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [C21-Steroid Hormone Metabolic Process](#), [Inositol Metabolic Process](#), [Glycosaminoglycan Metabolic Process](#), [Protein targeting to Nucleus](#), [S100 Proteins](#)

## Application Details

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**Comment:** Related Products: ABIN968545, 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.

## Handling

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Storage: -20 °C

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Storage Comment: Store undiluted at -20°C.

## Publications

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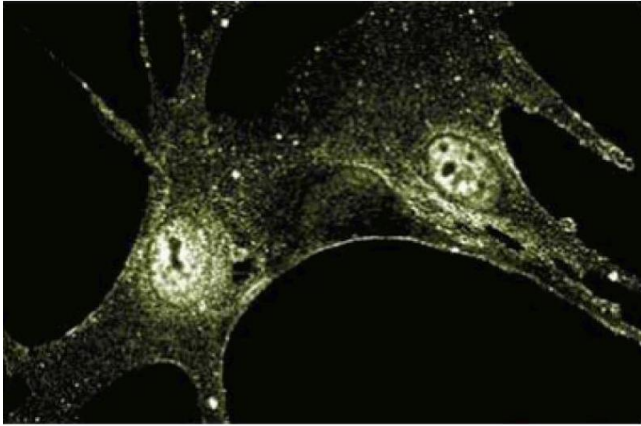
Product cited in: Yaccoby, Johnson, Mahaffey, Wezeman, Barlogie, Epstein: "Antimyeloma efficacy of thalidomide in the SCID-hu model." in: **Blood**, Vol. 100, Issue 12, pp. 4162-8, (2002) ([PubMed](#)).

Peng, Moffett, Myers, Fang, Stachowiak, Maher, Kratz, Hines, Fluharty, Mizukoshi, Bloom, Stachowiak: "Novel nuclear signaling pathway mediates activation of fibroblast growth factor-2 gene by type 1 and type 2 angiotensin II receptors." in: **Molecular biology of the cell**, Vol. 12, Issue 2, pp. 449-62, (2001) ([PubMed](#)).

Estival, Monzat, Miquel, Gaubert, Hollande, Korc, Vaysse, Clemente: "Differential regulation of fibroblast growth factor (FGF) receptor-1 mRNA and protein by two molecular forms of basic FGF. Modulation of FGFR-1 mRNA stability." in: **The Journal of biological chemistry**, Vol. 271, Issue 10, pp. 5663-70, (1996) ([PubMed](#)).

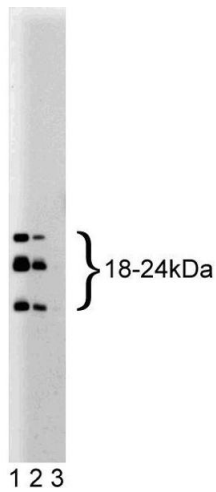
Fox, Shanley: "Antisense inhibition of basic fibroblast growth factor induces apoptosis in vascular smooth muscle cells." in: **The Journal of biological chemistry**, Vol. 271, Issue 21, pp. 12578-84, (1996) ([PubMed](#)).

Stachowiak, Moffett, Joy, Puchacz, Florkiewicz, Stachowiak: "Regulation of bFGF gene expression and subcellular distribution of bFGF protein in adrenal medullary cells." in: **The Journal of cell biology**, Vol. 127, Issue 1, pp. 203-23, (1994) ([PubMed](#)).



### Immunofluorescence

**Image 1.** Immunofluorescence staining of human fibroblasts.



### Western Blotting

**Image 2.** Western blot analysis for basic FGF on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the Mouse Anti-basic FGF antibody.