



Anti-Human FGF-2 (basic)

20170406BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P13
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human FGF-basic (human Fibroblast Growth Factor-basic). Anti-human FGF-basic specific antibody was purified by affinity chromatography employing immobilized human FGF-basic matrix.

Target Background

Synonyms (Target):	FGF2; BFGF; FGFB; HBGF-2
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FGF-basic or FGF-2 is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4.

Database References Target

Protein RefSeq:	NP_001997.5
Uniprot ID:	P09038
mRNA RefSeq:	NM_002006.4

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Human FGF-basic
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for 1 month at room temperature and at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of human FGF-2 (0.3 ng/ml), a concentration of 0.25 - 0.40 µg/ml of this antibody is required.

ELISA: To detect human FGF-2 by sandwich ELISA (using 100ml/well) a concentration of at least 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 2-4 ng/well of recombinant human FGF-2.

Western Blot: To detect human FGF-2 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human FGF-2 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Immunostaining: This antibody stained formalin-fixed, paraffin-embedded sections of human breast invasive ductal carcinoma. The recommended concentration is 0.25-0.5µg/ml for 2 hours at RT. An HRP-labelled polymer detection system was used with DAB chromogen. Heat induced antigen retrieval was performed with pH 6.0 sodium citrate buffer.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!