

FGF-2 Mouse mAb

CatalogNo: YM0265

Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IHC,IF,ELISA

MW

- 31kD (Calculated)

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:200-1:1000

ELISA 1:10000

IF 1:50-200

Basic Information

Clonality Monoclonal

Clone Number 1D4

Immunogen Information

Immunogen Purified recombinant fragment of FGF-2 expressed in E. Coli.

Specificity FGF-2 Monoclonal Antibody detects endogenous levels of FGF-2 protein.

| Target Information

Gene name FGF2

Protein Name Heparin-binding growth factor 2

Organism	Gene ID	UniProt ID
Human	2247 ;	P09038 ;
Mouse		P15655 ;

Cellular Localization

Secreted . Nucleus . Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane (PubMed:20230531). Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol (PubMed:22321063). Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57 (PubMed:22321063). .

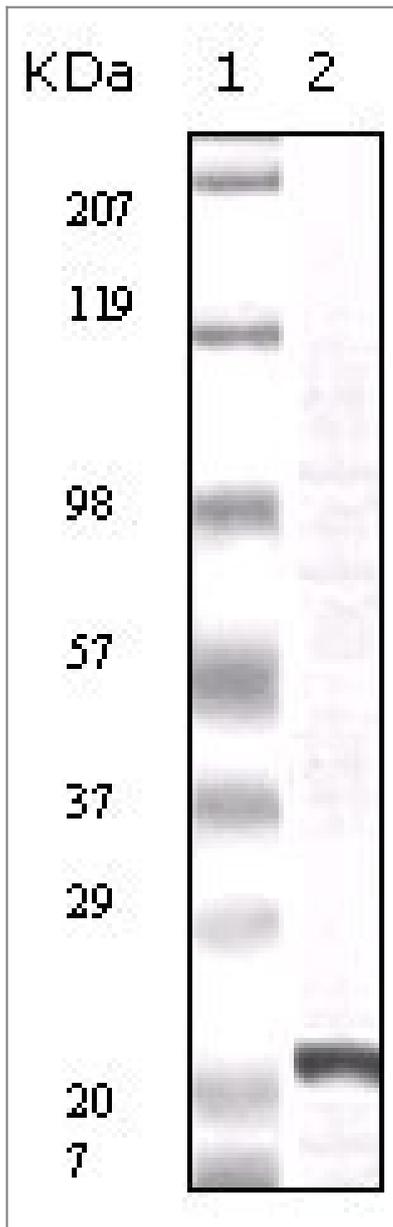
Tissue specificity

Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

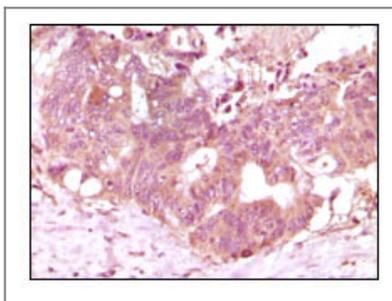
Function

Function:The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.,miscellaneous:This protein binds heparin more strongly than does aFGF.,PTM:Several N-termini starting at positions 48, 54, 47 and 65 have been identified by direct sequencing.,sequence Caution:Unusual initiator. The initiator methionine is coded by a non-canonical CTG leucine codon.,similarity:Belongs to the heparin-binding growth factors family.,subunit:Monomer. Interacts with CSPG4 and FGFBP1. Found in a complex with FGFBP1, FGF1 and FGF2.,tissue specificity:Expressed in granulosa and cumulus cells.,

| Validation Data



Western Blot analysis using FGF-2 Monoclonal Antibody against truncated FGF-2 recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human rectum adenocarcinoma tissue showing cytoplasmic localization with DAB staining using FGF-2 Monoclonal Antibody.

Contact information

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