

Anti-FGF8 Antibody

Catalog # ABO10597

Product Information

Application	WB, IHC-P
Primary Accession	P55075
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fibroblast growth factor 8(FGF8) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2253
Other Names	Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, FGF8, AIGF
Calculated MW	26525
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Fibroblast growth factor 8(FGF-8)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human FGF8(163-185aa FMKRLPRGHHHTTEQSLRFEFLNY), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Belongs to the heparin-binding growth factors family.

Protein Information

Name FGF8

Synonyms AIGF

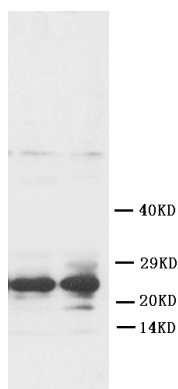
Function Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. Required for normal brain, eye, ear and limb development during embryogenesis. Required for normal development of the gonadotropin-releasing hormone (GnRH) neuronal system (PubMed:[16384934](#), PubMed:[16597617](#), PubMed:[8663044](#)). Plays a role in neurite outgrowth in hippocampal cells (PubMed:[21576111](#)).

Cellular Location Secreted.

Background

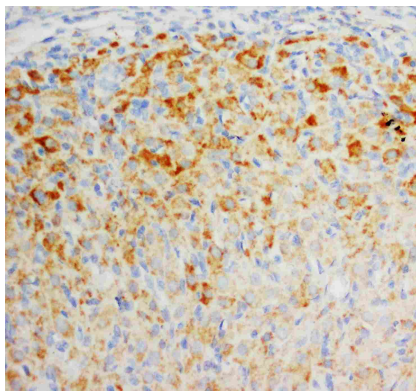
Fibroblast growth factor 8 (androgen-induced), also known as FGF8 or AIGF, is a human gene which maps to 10q24. The protein encoded by this gene are secreted proteins that interact with FGF tyrosine kinase receptors to mediate growth and development. This protein is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogenesis. The temporal and spatial patterns of this gene expression suggest that FGF8 is involved in gastrulation, regionalization of the brain, and organogenesis of the limb and face as an embryonic epithelial factor. The adult expression of FGF8 is restricted to gonads, including testes and ovaries. FGF8 stimulated growth of human prostate carcinoma cells and mouse fibroblasts and mammary carcinoma cells in a dose-dependent manner. It also may play an important role in growth and patterning of limbs, face, and central nervous system. FGF8 is expressed in increased levels in breast cancer and in lactating human breast; it was also detected in human milk. A survey of other normal tissues showed that FGF8 is expressed in the proliferative cells of the skin and epithelial cells in colon, ovary, fallopian tube, and uterus. FGF8 in adults expression is restricted to the gonads. We detected rat ovary in our lab.

Images



Anti-FGF8 antibody, ABO10597, Western blottingWB: Rat Ovary Tissue Lysate

Anti-FGF8 antibody, ABO10597, IHC(P)IHC(P): Rat Ovary Tissue



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