10320 Camino Santa Fe, Suite G
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Anti-FGF8 Antibody
Catalog # ABO10597

Specification

Anti-FGF8 Antibody - Product Information

Application	**WB, IHC**
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.

Anti-FGF8 Antibody - 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 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization
Secreted.

Protein Name
Fibroblast growth factor 8(FGF-8)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human FGF8(163-185aa FMKRLPRGHHTTEQSLRFEFLNY), 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 r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the heparin-binding growth factors family.

Anti-FGF8 Antibody - 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.

Anti-FGF8 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FGF8 Antibody - Images

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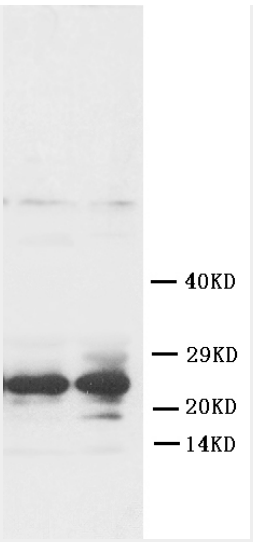
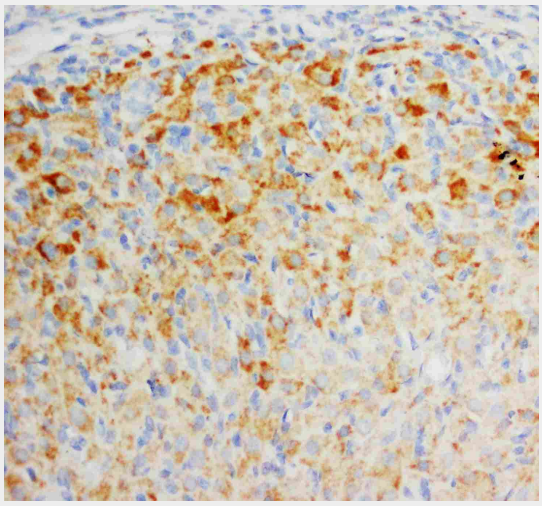


Anti-FGF8 antibody, ABO10597, Western blottingWB: Rat Ovary Tissue Lysate



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

Anti-FGF8 Antibody - 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 angiogensis. 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.