

FGF8 Rabbit pAb

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Catalog # AP52199

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P55075
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26525
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FGF8
Epitope Specificity	131-233/233
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
DISEASE	Defects in FGF8 are the cause of Kallmann syndrome type 6 (KAL6) [MIM:612702]. Kallmann syndrome is a disorder that associates hypogonadotropic hypogonadism and anosmia. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism is due to deficiency in gonadotropin-releasing hormone and probably results from a failure of embryonic migration of gonadotropin-releasing hormone-synthesizing neurons. In some patients other developmental anomalies can be present, which include renal agenesis, cleft lip and/or palate, selective tooth agenesis, and bimanual synkinesis. In some cases anosmia may be absent or inconspicuous.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Keratinocyte growth factor precursor (KGF) (Fibroblast growth factor 8; FGF-8; HBGF-8). Stimulates growth of the cells in an autocrine manner. Mediates hormonal action on the growth of cancer cells. Cooperates with Wnt-1 in mouse mammary tumor virus-induced murine mammary tumorigenesis. [Subcellular location] Secreted. [Tissue specificity] Absent in normal mammary glands and detected only in adult testis and ovary and in midgestational embryos. [Induction] By androgens. Belongs to the heparin-binding growth factors family.

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

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

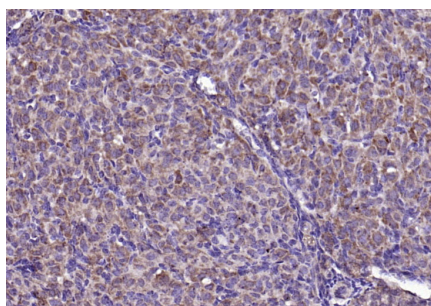
Background

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References

Tanaka A.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:8928-8932(1992).
Macarthur C.A.,et al.J. Virol. 69:2501-2507(1995).
Mahmood R.,et al.Curr. Biol. 5:797-806(1995).

Images



Paraformaldehyde-fixed, paraffin embedded (mouse ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FGF8) Polyclonal Antibody, Unconjugated (AP52199) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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