abcam

Product datasheet

Anti-FGF8 antibody ab81384

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Overview

Product name	Anti-FGF8 antibody
Description	Rabbit polyclonal to FGF8
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Mouse
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminal of Human FGF8.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservatives: 0.025% Sodium azide, 0.025% Thimerosal (merthiolate) Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab81384 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 27 kDa.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function
Stimulates growth of the cells in an autocrine manner. Mediates hormonal action on the growth of cancer cells.

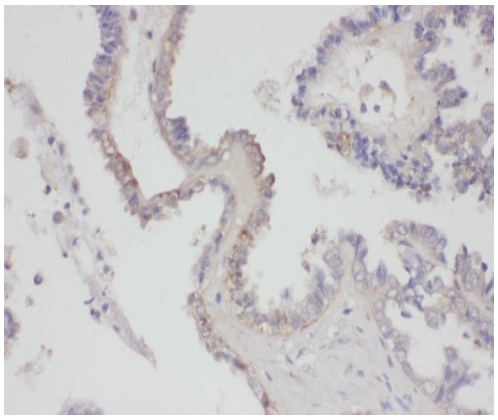
Involvement in disease
Defects in FGF8 are the cause of Kallmann syndrome type 6 (KAL6) [MIM:612702]. Kallmann syndrome is a disorder that associates hypogonadotropic hypogonadism and anosmia. Anosmia or hyposmia is related to the absence or hypoplasia of the olfactory bulbs and tracts. Hypogonadism 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.
Defects in FGF8 are a cause of idiopathic hypogonadotropic hypogonadism (IHH) [MIM:146110]. IHH is defined as a deficiency of the pituitary secretion of follicle-stimulating hormone and luteinizing hormone, which results in the impairment of pubertal maturation and of reproductive function.

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

Developmental stage
In adults expression is restricted to the gonads.

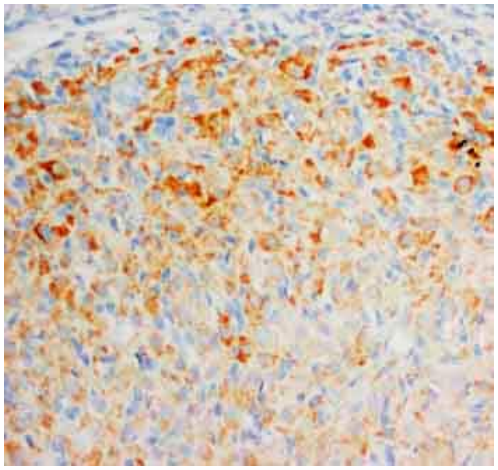
Cellular localization
Secreted.

Images



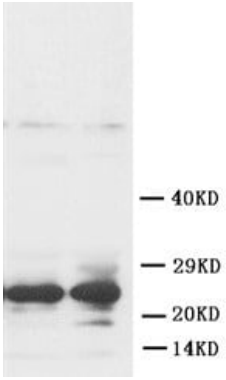
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGF8 antibody (ab81384)

ab81384 staining FGF8 in Human Ovarian cancer tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 5% BSA for 30 minutes at 37°C; antigen retrieval was by microwave heat mediation in a citrate buffer. Samples were incubated with primary antibody (2 µg/mL) for 2 hours at 37°C. A Biotin-conjugated secondary antibody was used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FGF8 antibody (ab81384)

ab81384 at 1µg/ml staining FGF8 in Rat ovary tissue sections by Immunohistochemistry(Formalin/ PFA-fixed paraffin-embedded sections). The tissue underwent heat mediated antigen retrieval. A Biotin-conjugated Goat anti-rabbit IgG was used as secondary at 1/200 dilution.



Western blot - Anti-FGF8 antibody (ab81384)

All lanes : Anti-FGF8 antibody (ab81384)

All lanes : Rat Ovary Tissue Lysate

Predicted band size: 27 kDa

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