**Product datasheet**

**Anti-FGF8 antibody ab81384**

**Overview**

**Product name**  Anti-FGF8 antibody  
**Description**  Rabbit polyclonal to FGF8  
**Host species**  Rabbit  
**Specificity**  No cross reactivity with other proteins.  
**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.

**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**

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 27 kDa.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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**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**

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.
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.

**All lanes**: Anti-FGF8 antibody (ab81384)

**All lanes**: Rat Ovary Tissue Lysate

**Predicted band size**: 27 kDa

**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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