

## **GFRA4 Antibody (Center)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13249c

## **Specification**

## **GFRA4 Antibody (Center) - Product Information**

Application WB,E
Primary Accession Q9GZZ7

Other Accession NP\_665705.1, NP\_071422.1

Reactivity
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region

Human
Rabbit
Rabbit
Polyclonal
Rabbit IgG
31670
156-184

## **GFRA4 Antibody (Center) - Additional Information**

#### **Gene ID** 64096

#### **Other Names**

GDNF family receptor alpha-4, GDNF receptor alpha-4, GDNFR-alpha-4, GFR-alpha-4, Persephin receptor, GFRA4

## Target/Specificity

This GFRA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-184 amino acids from the Central region of human GFRA4.

## **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

## **Storage**

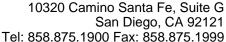
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

GFRA4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

# **GFRA4 Antibody (Center) - Protein Information**

#### Name GFRA4





**Function** Receptor for persephin (PSPN), a growth factor that exhibits neurotrophic activity on mesencephalic dopaminergic and motor neurons (PubMed:<u>11116144</u>). Acts by binding to its coreceptor, GFRA4, leading to autophosphorylation and activation of the RET receptor (PubMed:<u>11116144</u>). May be important in C-cell development and, in the postnatal development of the adrenal medulla (PubMed:<u>11116144</u>).

#### **Cellular Location**

[Isoform GFRalpha4a]: Cell membrane; Lipid-anchor, GPI-anchor [Isoform GFRalpha4c]: Secreted

#### **Tissue Location**

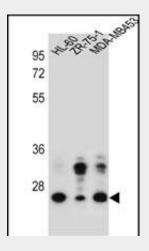
Predominantly expressed in the adult thyroid gland. Low levels also found in fetal adrenal and thyroid glands

## **GFRA4 Antibody (Center) - 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

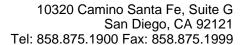
## GFRA4 Antibody (Center) - Images



GFRA4 Antibody (Center) (Cat. #AP13249c) western blot analysis in HL-60,ZR-75-1,MDA-MB453 cell line lysates (35ug/lane). This demonstrates the GFRA4 antibody detected the GFRA4 protein (arrow).

## **GFRA4 Antibody (Center) - Background**

The protein encoded by this gene is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for persephin, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for RET-associated diseases. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.





# **GFRA4 Antibody (Center) - References**

Yang, J., et al. FEBS Lett. 569 (1-3), 267-271 (2004): Borrego, S., et al. J. Med. Genet. 40 (3), E18 (2003): Deloukas, P., et al. Nature 414(6866):865-871(2001) Zhou, B., et al. Pediatr. Neurol. 25(2):156-161(2001) Lindahl, M., et al. J. Biol. Chem. 276(12):9344-9351(2001) GFRA4 Antibody (Center) - Citations

• <u>Downregulation of microRNA-483-5p Promotes Cell Proliferation and Invasion by Targeting GFRA4 in Hirschsprung's Disease.</u>