

**Gα olf Polyclonal Antibody**  
**Catalog # AP70276****Specification**

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**Gα olf Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P38405</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Gα olf Polyclonal Antibody - Additional Information****Gene ID** 2774**Other Names**

GNAL; Guanine nucleotide-binding protein G(olf) subunit alpha; Adenylate cyclase-stimulating G alpha protein; olfactory type

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.  
IHC-P~~N/A

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Gα olf Polyclonal Antibody - Protein Information**

**Name** GNAL {ECO:0000303|PubMed:23222958, ECO:0000312|HGNC:HGNC:4388}

**Function**

Guanine nucleotide-binding protein (G protein) involved as transducer in olfactory signal transduction controlled by G protein- coupled receptors (GPCRs) (By similarity). Contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state (By similarity). Signaling by an activated GPCR promotes GDP release and GTP binding (By similarity). The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal (By similarity). Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (By similarity). GNAL/G(olf) alpha specifically mediates olfactory signal transduction within the olfactory neuroepithelium and the basal ganglia following GPCRs activation (By similarity). Acts by promoting the specific activation of adenylyl cyclase ADCY3, resulting in increased levels of the signaling molecule cAMP (By similarity).

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q8CGK7}; Peripheral membrane protein

{ECO:0000250|UniProtKB:Q8CGK7}

#### Tissue Location

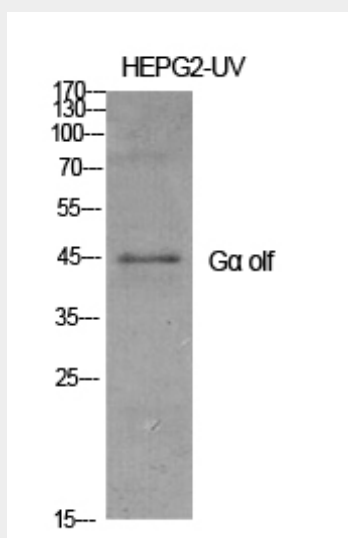
Detected in olfactory neuroepithelium, brain, testis, and to a lower extent in retina, lung alveoli, spleen (PubMed:8243272). Trace amounts where seen in kidney, adrenal gland and liver (PubMed:8243272). Found to be expressed in all the insulinomas examined (PubMed:8243272).

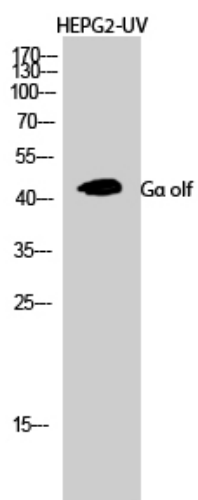
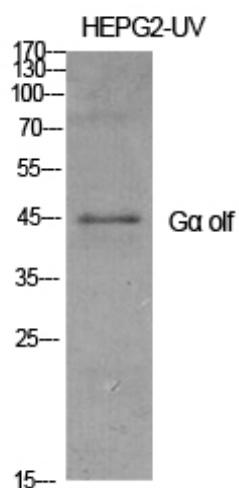
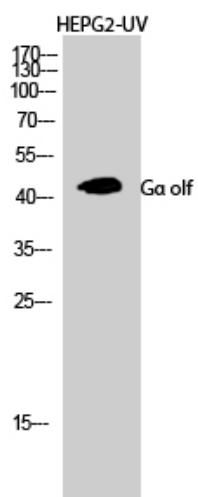
#### Gα olf Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Gα olf Polyclonal Antibody - Images





**Gα olf Polyclonal Antibody - Background**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(olf) alpha mediates signal transduction within the olfactory neuroepithelium and the basal ganglia. May be involved in some aspect of visual transduction, and in mediating the effect of one or more hormones/neurotransmitters.