

**GPR3 Antibody (Extracellular Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10036****Specification**

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**GPR3 Antibody (Extracellular Domain) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">P46089</a>
Reactivity	Human, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa
Dilution	IHC-P~~N/A

**GPR3 Antibody (Extracellular Domain) - Additional Information****Gene ID** 2827**Other Names**

G-protein coupled receptor 3, ACCA orphan receptor, GPR3, ACCA

**Target/Specificity**

Human GPR3. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except SPPL2A (60%).

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

GPR3 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPR3 Antibody (Extracellular Domain) - Protein Information****Name** GPR3**Synonyms** ACCA**Function**

Constitutively active G-protein coupled receptor that maintains high 3'-5'-cyclic adenosine monophosphate (cAMP) levels that plays a role in several processes including meiotic arrest in oocytes or neuronal development via activation of numerous intracellular signaling pathways. Acts as an essential activator of thermogenic adipocytes and drives thermogenesis via its intrinsic G(s)-coupling activity without the requirement of a ligand (PubMed:<a href="http://www.uniprot.org/citations/34048700" target="\_blank">34048700</a>). Has a potential role in modulating a number of brain functions, including behavioral responses to stress (By similarity), amyloid-beta peptide generation in neurons (By similarity). Stimulates neurite outgrowth in cerebellar granular neurons modulated via PKA, ERK, and most strongly

PI3K-mediated signaling pathways (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein.

**Tissue Location**

Expressed predominantly in the central nervous system, and at low levels in the lung, kidney, testis, ovary and eye Highly expressed in regions of the brain implicated in the Alzheimer disease

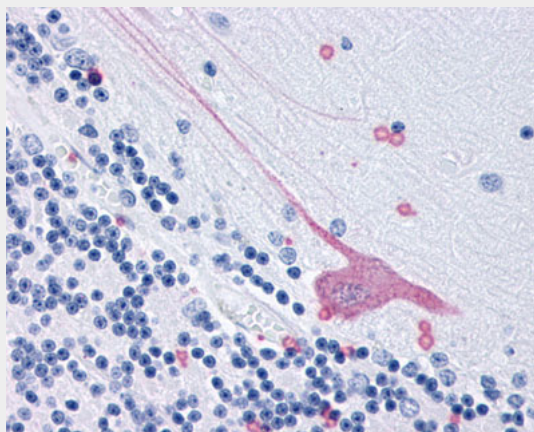
**Volume**

50  $\mu$ l

**GPR3 Antibody (Extracellular Domain) - 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](#)

**GPR3 Antibody (Extracellular Domain) - Images**

Anti-GPR3 antibody ALS10036 IHC of human brain.

**GPR3 Antibody (Extracellular Domain) - Background**

Orphan receptor with constitutive G(s) signaling activity that activate cyclic AMP. Has a potential role in modulating a number of brain functions, including behavioral responses to stress (By similarity), amyloid-beta peptide generation in neurons and neurite outgrowth (By similarity). Maintains also meiotic arrest in oocytes (By similarity).

**GPR3 Antibody (Extracellular Domain) - References**

Song Z.-H., et al. Genomics 28:347-349(1995).  
Iismaa T.P., et al. Genomics 24:391-394(1994).

Eggerickx D.,et al.Biochem. J. 309:837-843(1995).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Gregory S.G.,et al.Nature 441:315-321(2006).