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GPR3 Antibody (Extracellular Domain)

Rabbit Polyclonal Antibody

Catalog # ALS10036

Specification

GPR3 Antibody (Extracellular Domain) - Product Information

Application	**IHC**
Primary Accession	P46089
Reactivity	**Human, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**35kDa KDa**

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 a plays a role in serveral 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:34048700). 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

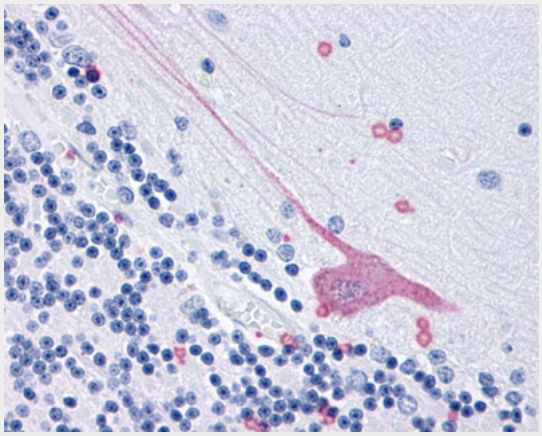
Volume
50 µl

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 Cytomety
- 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).