10320 Camino Santa Fe, Suite G
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GPR88 Antibody (Cytoplasmic Domain)

Rabbit Polyclonal Antibody
Catalog # ALS10837

Specification

GPR88 Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	Q9GZN0
Reactivity	**Human, Monkey, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40kDa KDa**

GPR88 Antibody (Cytoplasmic Domain) - Additional Information

Gene ID 54112

Other Names
Probable G-protein coupled receptor 88, Striatum-specific G-protein coupled receptor, GPR88, STRG

Target/Specificity
Human GPR88. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
GPR88 Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR88 Antibody (Cytoplasmic Domain) - Protein Information

Name GPR88

Synonyms STRG

Function
Orphan G protein-coupled receptor implicated in a large repertoire of behavioral responses that engage motor activities, spatial learning, and emotional processing (By similarity). May play a role in the regulation of cognitive and motor function (By similarity). Couples with the heterotrimeric G protein complex of the G(i) subfamily, consisting of GNAI1, GNB1 and GNG2, thereby acting through a G(i)-mediated pathway (PubMed:35501348). Plays a role in the attenuation of D1 dopamine receptor (D1R)-mediated cAMP response in ciliated cells (PubMed:23936473). In non-ciliated cells, involved in the inhibition of the beta-2 adrenergic receptor (B2AR) response

(PubMed:23936473).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q9ESP4}; Multi-pass membrane protein. Cell projection, cilium membrane; Multi-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q9ESP4}. Nucleus {ECO:0000250|UniProtKB:Q9ESP4}. Note=Localized to cilia in ciliated cells; whereas in non-ciliated cells, distributed throughout the cell membrane (PubMed:23936473). During cortical lamination, subcellular location shifts, on the day of birth, from expression at the plasma membrane and in the cytoplasm to the nuclei of neurons. This intranuclear localization remains throughout adulthood {ECO:0000250|UniProtKB:Q9ESP4, ECO:0000269|PubMed:23936473}

Tissue Location
Expressed predominantly in the striatum.

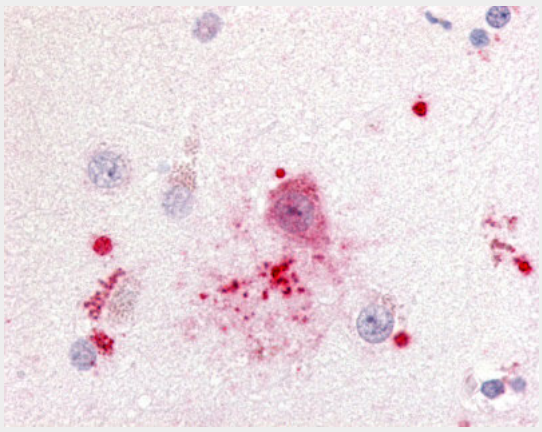
Volume
50 µl

GPR88 Antibody (Cytoplasmic Domain) - Protocols

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

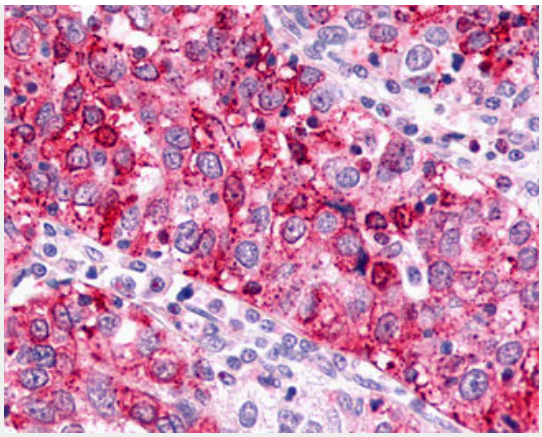
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR88 Antibody (Cytoplasmic Domain) - Images

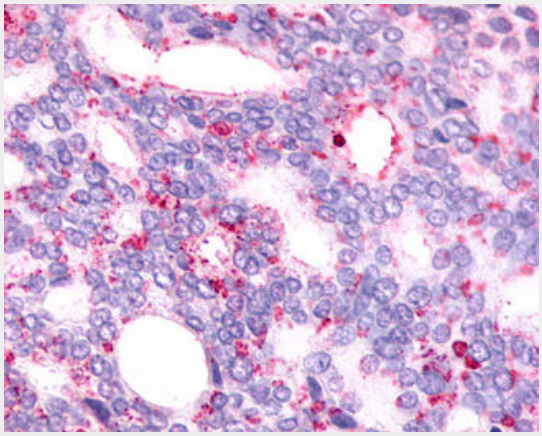


Anti-GPR88 antibody ALS10837 IHC of human brain, neurons and glia.

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Anti-GPR88 antibody IHC of human Ovary, Carcinoma.



Anti-GPR88 antibody IHC of human Prostate, Carcinoma.

GPR88 Antibody (Cytoplasmic Domain) - Background

Orphan receptor.

GPR88 Antibody (Cytoplasmic Domain) - References

Mizushima K.,et al.Genomics 69:314-321(2000).
Kopatz S.A.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).