10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPR143 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10523

Specification

GPR143 Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	P51810
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**44kDa KDa**

GPR143 Antibody (C-Terminus) - Additional Information

Gene ID 4935

Other Names
G-protein coupled receptor 143, Ocular albinism type 1 protein, GPR143, OA1

Target/Specificity
Human GPR143. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

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

Precautions
GPR143 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

GPR143 Antibody (C-Terminus) - Protein Information

Name GPR143

Synonyms OA1

Function
Receptor for tyrosine, L-DOPA and dopamine. After binding to L-DOPA, stimulates Ca(2+) influx into the cytoplasm, increases secretion of the neurotrophic factor SERPINF1 and relocalizes beta arrestin at the plasma membrane; this ligand-dependent signaling occurs through a G(q)-mediated pathway in melanocytic cells. Its activity is mediated by G proteins which activate the phosphoinositide signaling pathway. Also plays a role as an intracellular G protein-coupled receptor involved in melanosome biogenesis, organization and transport.

Cellular Location
Melanosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Distributed

throughout the endo-melanosomal system but most of endogenous protein is localized in unpigmented stage II melanosomes. Its expression on the apical cell membrane is sensitive to tyrosine (PubMed:18828673).

Tissue Location
Expressed at high levels in the retina, including the retinal pigment epithelium (RPE), and in melanocytes. Weak expression is observed in brain and adrenal gland

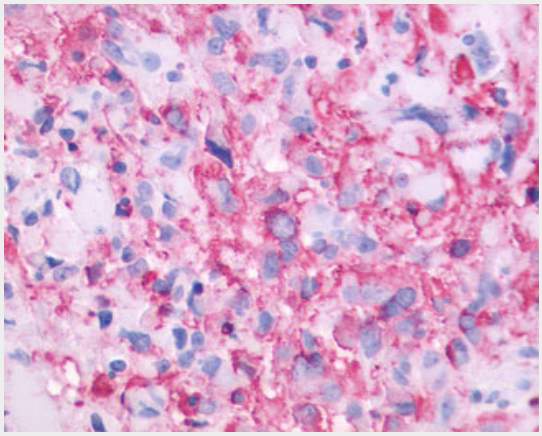
Volume
50 µl

GPR143 Antibody (C-Terminus) - Protocols

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

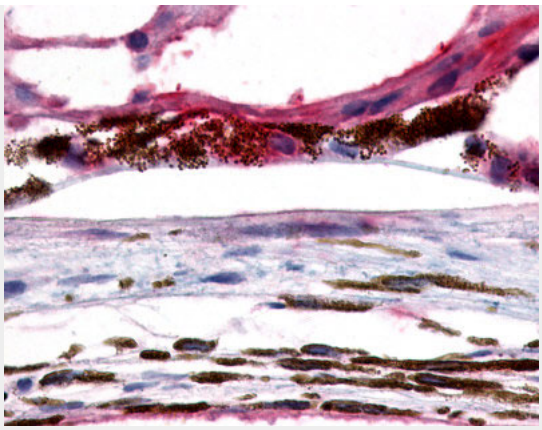
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GPR143 Antibody (C-Terminus) - Images

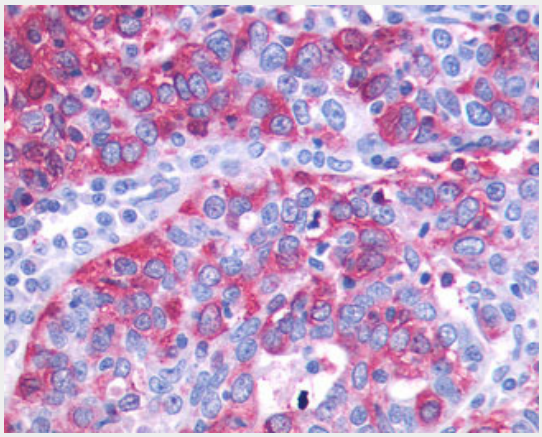


Anti-GPR143 antibody IHC of human Brain, Glioblastoma.

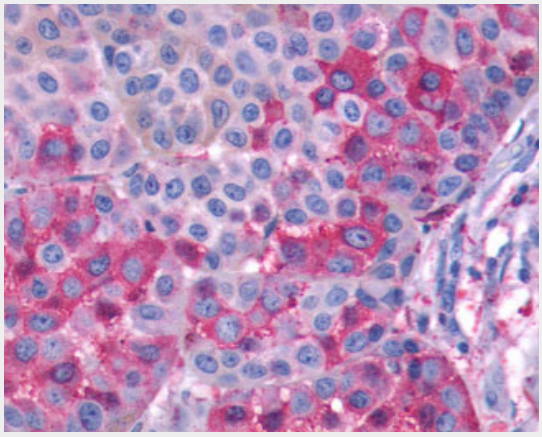
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Anti-GPR143 antibody ALS10523 IHC of human eye, retina.



Anti-GPR143 antibody IHC of human Ovary, Carcinoma.



Anti-GPR143 antibody IHC of human Skin, Melanoma.

GPR143 Antibody (C-Terminus) - Background

Receptor for tyrosine, L-DOPA and dopamine. After binding to L-DOPA, stimulates Ca(2+) influx into the cytoplasm, increases secretion of the neurotrophic factor SERPINF1 and relocalizes beta arrestin at the plasma membrane; this ligand- dependent signaling occurs through a G(q)-mediated pathway in melanocytic cells. Its activity is mediated by G proteins which activate the phosphoinositide signaling pathway. Plays also a role as an intracellular G protein-coupled receptor involved in melanosome biogenesis, organization and transport.

GPR143 Antibody (C-Terminus) - References

Bassi M.T.,et al.Nat. Genet. 10:13-19(1995).
Ross M.T.,et al.Nature 434:325-337(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Oetting W.S.,et al.Hum. Mutat. 13:99-115(1999).
Schiaffino M.V.,et al.Nat. Genet. 23:108-112(1999).