

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

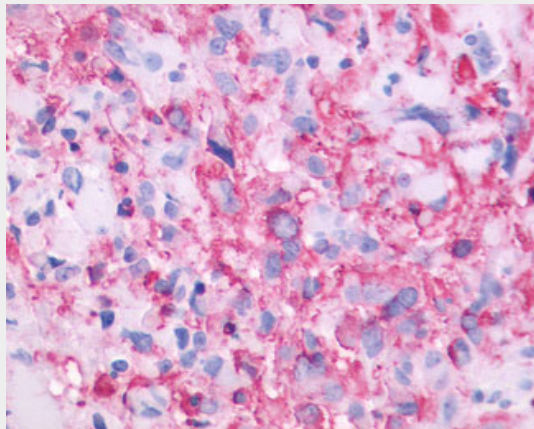
50 μ l

GPR143 Antibody (C-Terminus) - Protocols

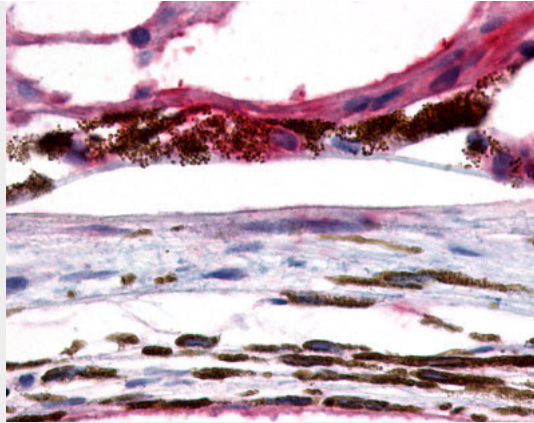
Provided below are standard protocols that you may find useful for product applications.

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

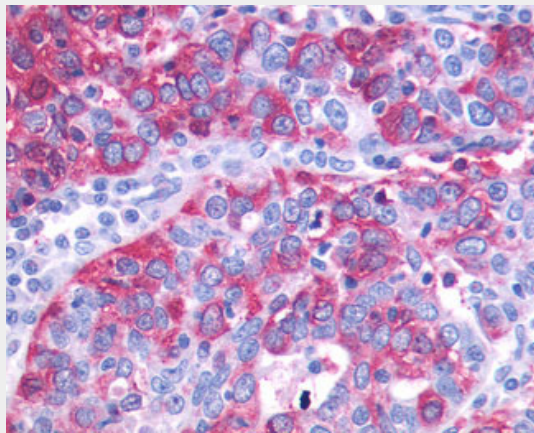
GPR143 Antibody (C-Terminus) - Images



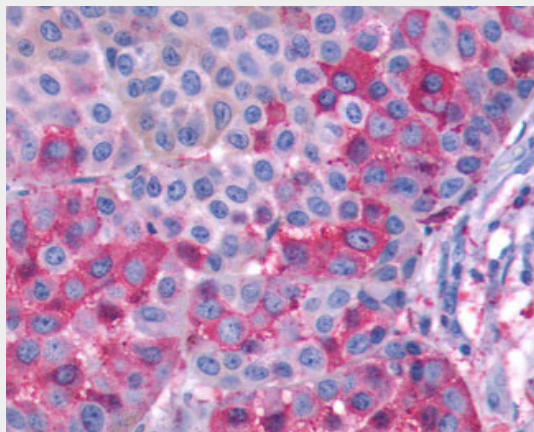
Anti-GPR143 antibody IHC of human Brain, Glioblastoma.



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 Ca²⁺ 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

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Ross M.T.,et al.Nature 434:325-337(2005).
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Oetting W.S.,et al.Hum. Mutat. 13:99-115(1999).
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