

GPR143 Polyclonal Antibody

Catalog No :	YT1974
Reactivity :	Human;Mouse
Applications :	IF;ELISA
Target :	GPR143
Gene Name :	GPR143
Protein Name :	G-protein coupled receptor 143
Human Gene Id :	4935
Human Swiss Prot No :	P51810
Mouse Gene Id :	18241
Mouse Swiss Prot No :	P70259
Immunogen :	The antiserum was produced against synthesized peptide derived from human GPR143. AA range:151-200
Specificity :	GPR143 Polyclonal Antibody detects endogenous levels of GPR143 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 44kD

Background : This gene encodes a protein that binds to heterotrimeric G proteins and is targeted to melanosomes in pigment cells. This protein is thought to be involved in intracellular signal transduction mechanisms. Mutations in this gene cause ocular albinism type 1, also referred to as Nettleship-Falls type ocular albinism, a severe visual disorder. A related pseudogene has been identified on chromosome Y. [provided by RefSeq, Dec 2009],

Function : disease:Defects in GPR143 are the cause of ocular albinism type 1 (OA1) [MIM:300500]; also known as Nettleship-Falls type ocular albinism. OA1 is an X-linked disorder characterized by severe impairment of visual acuity, retinal hypopigmentation and the presence of macromelanosomes.,function:Not known; binds heterotrimeric G proteins.,online information:GPR143 mutations,online information:Retina International's Scientific Newsletter,similarity:Belongs to the G-protein coupled receptor OA family.,subcellular location:Targeted to intracellular organelles, namely the melanosomes in pigment cells.,tissue specificity:Exclusively expressed in pigment cells.,

Subcellular Location : Melanosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Apical cell membrane ; Multi-pass membrane protein . 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). .

Expression : 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.

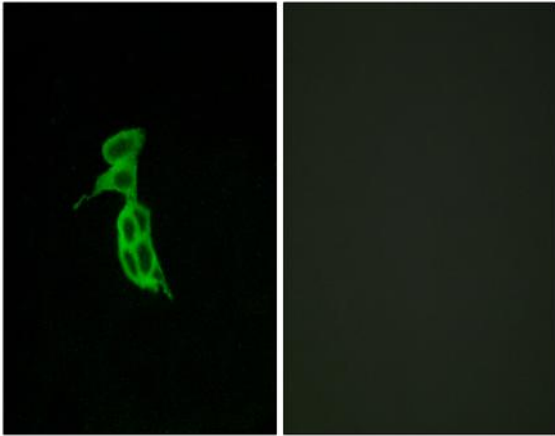
Sort : 7003

No4 : 1

Host : Rabbit

Modifications : Unmodified

Products Images



Immunofluorescence analysis of LOVO cells, using GPR143 Antibody. The picture on the right is blocked with the synthesized peptide.