

**Anti-GPR143 Antibody**  
Rabbit polyclonal antibody to GPR143  
Catalog # AP60176

**Specification**

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**Anti-GPR143 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P51810</a>
Other Accession	<a href="#">P70259</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43878

**Anti-GPR143 Antibody - Additional Information**

**Gene ID** 4935

**Other Names**

OA1; G-protein coupled receptor 143; Ocular albinism type 1 protein

**Target/Specificity**

Recognizes endogenous levels of GPR143 protein.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-GPR143 Antibody - 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

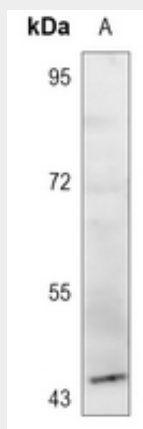
Expressed at high levels in the retina, including the retinal pigment epithelium (RPE), and in melanocytes. Weak expression is observed in brain and adrenal gland

## Anti-GPR143 Antibody - 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](#)

## Anti-GPR143 Antibody - Images



Western blot analysis of GPR143 expression in PC12 (A) whole cell lysates.

## Anti-GPR143 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GPR143. The exact sequence is proprietary.