

OCA2 Antibody (N-Term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10199a**Specification**

OCA2 Antibody (N-Term) - Product Information

Application	WB,E
Primary Accession	Q04671
Other Accession	NP_000266.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	92850
Antigen Region	111-138

OCA2 Antibody (N-Term) - Additional Information**Gene ID** 4948**Other Names**

P protein, Melanocyte-specific transporter protein, Pink-eyed dilution protein homolog, OCA2, D15S12, P

Target/Specificity

This OCA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-138 amino acids from the N-terminal region of human OCA2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

OCA2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

OCA2 Antibody (N-Term) - Protein Information**Name** OCA2 ([HGNC:8101](#))

Synonyms D15S12, P

Function Contributes to a melanosome-specific anion (chloride) current that modulates melanosomal pH for optimal tyrosinase activity required for melanogenesis and the melanosome maturation (PubMed:[11310796](#), PubMed:[15262401](#), PubMed:[22234890](#), PubMed:[25513726](#)). One of the components of the mammalian pigmentary system (PubMed:[15262401](#), PubMed:[18252222](#), PubMed:[7601462](#)). May serve as a key control point at which ethnic skin color variation is determined. Major determinant of brown and/or blue eye color (PubMed:[15262401](#), PubMed:[18252222](#), PubMed:[7601462](#)). Seems to regulate the post-translational processing of tyrosinase, which catalyzes the limiting reaction in melanin synthesis (By similarity).

Cellular Location

Melanosome membrane; Multi-pass membrane protein

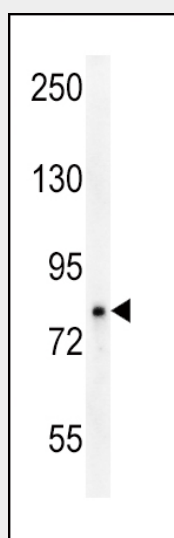
Tissue Location

Expressed in melanocytes and retinal pigment epithelium.

OCA2 Antibody (N-Term) - 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](#)

OCA2 Antibody (N-Term) - Images

OCA2 Antibody (N-Term) (Cat. #AP10199a) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the OCA2 antibody detected the OCA2 protein (arrow).

OCA2 Antibody (N-Term) - Background

This gene encodes the human homologue of the mouse p (pink-eyed dilution) gene. The encoded protein is believed to be an integral membrane protein involved in small molecule transport, specifically tyrosine - a precursor of melanin. Mutations in this gene result in type 2 oculocutaneous albinism. [provided by RefSeq].

OCA2 Antibody (N-Term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Mengel-From, J., et al. Forensic Sci Int Genet 4(5):323-328(2010)
Ibarrola-Villava, M., et al. Exp. Dermatol. 19(9):836-844(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Eriksson, N., et al. PLoS Genet. 6 (6), E1000993 (2010) :