

OCA2 Antibody (N-Term) Blocking peptide
Synthetic peptide
Catalog # BP10199a**Specification**

OCA2 Antibody (N-Term) Blocking peptide - Product Information

Primary Accession [Q04671](#)
Other Accession [NP_000266.2](#)

OCA2 Antibody (N-Term) Blocking peptide - Additional Information

Gene ID 4948

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

OCA2 Antibody (N-Term) Blocking peptide - 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: [25513726](http://www.uniprot.org/citations/25513726), PubMed: [11310796](http://www.uniprot.org/citations/11310796), PubMed: [15262401](http://www.uniprot.org/citations/15262401), PubMed: [22234890](http://www.uniprot.org/citations/22234890)). One of the components of the mammalian pigmentary system (PubMed: [15262401](http://www.uniprot.org/citations/15262401), PubMed: [18252222](http://www.uniprot.org/citations/18252222), PubMed: [7601462](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15262401), PubMed: [18252222](http://www.uniprot.org/citations/18252222), PubMed: [7601462](http://www.uniprot.org/citations/7601462))

target="_blank">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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

OCA2 Antibody (N-Term) Blocking peptide - Images**OCA2 Antibody (N-Term) Blocking peptide - 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) Blocking peptide - 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) :