OCA2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	OCA2, Monoclonal Antibody
Full Product Name	OCA2 (P Protein, Melanocyte-specific Transporter Protein, Pink-eyed Dilution Protein Homolog, D15S12, P) (MaxLight 405)
Product Gene Name	anti-OCA2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human OCA2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximu recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	Partial recombinant corresponding to aa201-300 from human OCA2 (AAH12097) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GKLWQLLALSPLENYSVNLSSHVDSTLLQVDLAGALVASGPSRPGREEHIVVELTQADALGSRWRRPQQVTHNWTVYLNPRRSEHSVMSRTFEVLTRET
Conjugate	MaxLight405
Product Categories/Family for anti-OCA2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-OCA2 antibody	FLISA
Application Notes for anti-OCA2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-OCA2 antibody	Could be involved in the transport of tyrosine, the precursor to melanin synthesis, within the melanocyte. Regulates the pH of melanosome and the melanosome maturation. One of the components of the mammalian pigmentary system. Seems to regulate the post-translational processing of tyrosinase, which catalyzes the limiting reaction in melanin synthesis. May serve as a key control point at which ethnic skin color variation is determined Major determinant of brown and/or blue eye color.
Other Notes	Small volumes of anti-OCA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for OCA2 purchase	MBS6191559 is an antibody targeting OCA2. Also known as OCA2 (P Protein, Melanocyte-specific Transporter Protein, Pink-eyed Dilution Protein Homolog, D15S12, P) (MaxLight 405). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OCA2. It may not necessarily be applicable to this product.

NCBI GI #	15082368
NCBI GeneID	4948
NCBI Accession #	BC012097
NCBI Related Accession #	AAH12097
UniProt Related Accession #	Q04671
NCBI Official Full Name	Homo sapiens oculocutaneous albinism II, mRNA
NCBI Official Synonym Full Names	OCA2 melanosomal transmembrane protein
NCBI Official Symbol	OCA2
NCBI Official Synonym Symbols	P; BEY; PED; BEY1; BEY2; BOCA; EYCL; HCL3; EYCL2; EYCL3; SHEP1; D15S12
Protein Family	P protein
NCBI Protein Information	P protein
NCBI Summary for OCA2	This gene encodes the human homolog 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, which is a precursor to melanin synthesis. It is involved in mammalian pigmentation, where it may control skin color variation and act as a determinant of brown or blue eye color. Mutations in this gene result in type 2 oculocutaneous albinism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
Research Articles on OCA2	**1.** The main type of ocular albinism is oculocutaneous albinism type II in China's Liuzhou region, where the most common variations of the P gene were c.803-3C>G and c.1327G>A (p.Val443Ile).
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