



OPSB Polyclonal Antibody

Catalog No	YP-Ab-07440
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	OPN1SW BCP
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	OPSB Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	OPSB;OPN1SW BCP;Short-wave-sensitive opsin 1 (Blue cone photoreceptor pigment) (Blue-sensitive opsin) (BOP)
Observed Band	38kD
Calculated Molecular Weight	38kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Photoreceptor inner segment . Cell projection, cilium, photoreceptor outer segment . Cytoplasm, perinuclear region .
Tissue Specificity	The three color pigments are found in the cone photoreceptor cells (PubMed:2937147). Expressed throughout the epidermis and dermis, primarily in the stratum granulosum in the facial and abdominal skin (at protein level) (PubMed:30168605). Expressed in dermal fibroblasts (at protein level) (PubMed:31380578). Expressed in melanocytes (at protein level) (PubMed:31730232).
Function	disease:Defects in OPN1SW are the cause of tritan color blindness (tritanopia) [MIM:190900].,function:Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal.,online information:Retina International's Scientific Newsletter, PTM:Phosphorylated on some or all of the serine and threonine residues



present in the C-terminal region.,similarity:Belongs to the G-protein coupled receptor 1 family.,similarity:Belongs to the G-protein coupled receptor 1 family. Opsin subfamily.,tissue specificity:The three color pigments are found in the cone photoreceptor cells.,

Background

This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. [provided by RefSeq, Jul 2008],

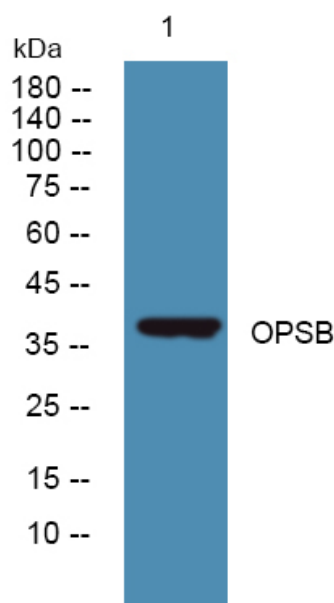
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night