

OPN5 Antibody (Transmembrane Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10527**Specification**

OPN5 Antibody (Transmembrane Domain) - Product Information

Application	IHC
Primary Accession	Q6U736
Reactivity	Human, Mouse, Rabbit, Monkey, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40kDa KDa

OPN5 Antibody (Transmembrane Domain) - Additional Information**Gene ID** 221391**Other Names**

Opsin-5, G-protein coupled receptor 136, G-protein coupled receptor PGR12, Neuropsin, Transmembrane protein 13, OPN5, GPR136, PGR12, TMEM13

Target/Specificity

Human OPN5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

OPN5 Antibody (Transmembrane Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

OPN5 Antibody (Transmembrane Domain) - Protein Information**Name** OPN5**Synonyms** GPR136, PGR12, TMEM13**Function**

G-protein coupled receptor which selectively activates G(i) type G proteins via ultraviolet A (UVA) light-mediated activation in the retina (By similarity). Preferentially binds the chromophore 11-cis retinal and is a bistable protein that displays emission peaks at 380 nm (UVA light) and 470 nm (blue light) (PubMed:22043319). Required for the light-response in the inner plexiform layer, and contributes to the regulation of the light-response in the nerve fiber layer, via phosphorylated DAT/SLC6A3 dopamine uptake (By similarity). Involved in local corneal and retinal circadian rhythm photoentrainment via modulation of the UVA light-induced phase-shift of the retina clock

(By similarity). Acts as a circadian photoreceptor in the outer ear, via modulation of circadian clock-gene expression in response to violet light during the light-to-dark transition phase and night phase of the circadian cycle (By similarity). Required in the retina to negatively regulate hyaloid vessel regression during postnatal development via light-dependent OPN5-SLC32A1-DRD2-VEGFR2 signaling (By similarity). Involved in the light-dependent regulation of retina and vitreous compartment dopamine levels (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Detected in brain and retina and cell lines derived from neural retina.

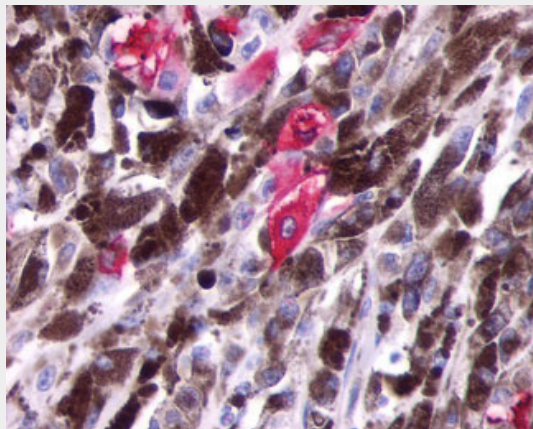
Volume

50 μ l

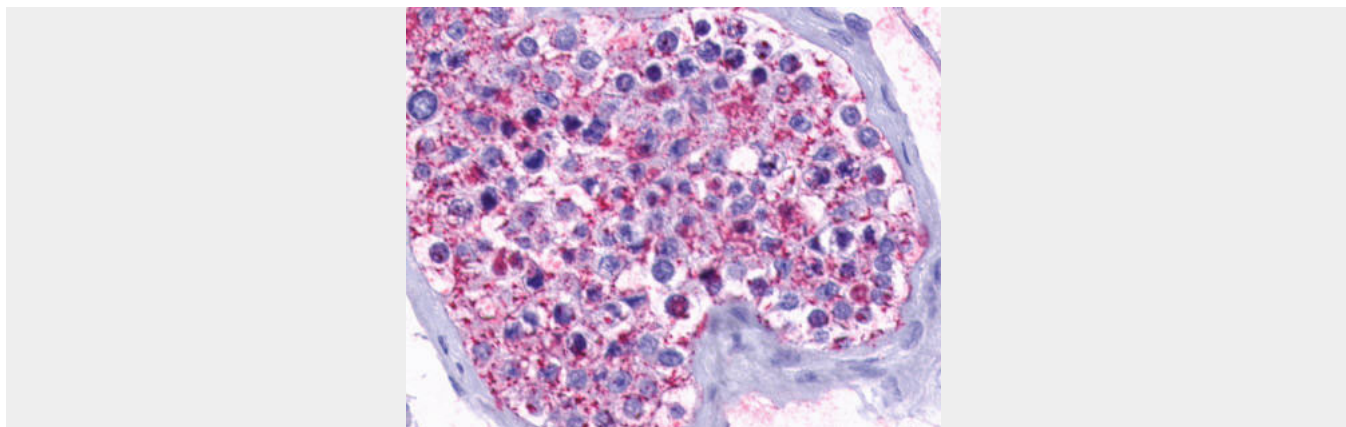
OPN5 Antibody (Transmembrane Domain) - Protocols

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](#)

OPN5 Antibody (Transmembrane Domain) - Images

Anti-OPN5 antibody IHC of human Skin, Melanoma.



Anti-OPN5 antibody ALS10527 IHC of human testis.

OPN5 Antibody (Transmembrane Domain) - References

- Tarttelin E.E.,et al.FEBS Lett. 554:410-416(2003).
Fredriksson R.,et al.FEBS Lett. 554:381-388(2003).
Vassilatis D.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 100:4903-4908(2003).
Mungall A.J.,et al.Nature 425:805-811(2003).