

**PPEF2 antibody (Center R384) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8479b****Specification**

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**PPEF2 antibody (Center R384) Blocking Peptide - Product Information**Primary Accession [O14830](#)**PPEF2 antibody (Center R384) Blocking Peptide - Additional Information****Gene ID** 5470**Other Names**

Serine/threonine-protein phosphatase with EF-hands 2, PPEF-2, PPEF2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8479b](/product/products/AP8479b) was selected from the Center region of human PPEF2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**PPEF2 antibody (Center R384) Blocking Peptide - Protein Information****Name** PPEF2**Function**

May play a role in phototransduction. May dephosphorylate photoactivated rhodopsin. May function as a calcium sensing regulator of ionic currents, energy production or synaptic transmission.

**Cellular Location**

Cytoplasm. Cell projection, cilium, photoreceptor outer segment. Photoreceptor inner segment  
Note=Localized to photoreceptors, PPEF-2(L) is at least 2 fold more abundant in rod inner segments than in the outer segments

**Tissue Location**

Retinal specific.

**PPEF2 antibody (Center R384) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PPEF2 antibody (Center R384) Blocking Peptide - Images****PPEF2 antibody (Center R384) Blocking Peptide - Background**

PPEF2 is a member of the serine/threonine protein phosphatase with EF-hand motif family. The protein contains a protein phosphatase catalytic domain, and at least two EF-hand calcium-binding motifs in its C terminus. Although its substrate(s) is unknown, the encoded protein, which is expressed specifically in photoreceptors and the pineal, has been suggested to play a role in the visual system. This protein shares high sequence similarity with the Drosophila retinal degeneration C (rdgC) protein.

**PPEF2 antibody (Center R384) Blocking Peptide - References**

Kutuzov, M.A., et al., Biochem. Biophys. Res. Commun. 293(3):1047-1052 (2002). Ramulu, P., et al., Mol. Cell. Biol. 21(24):8605-8614 (2001). Sherman, P.M., et al., Proc. Natl. Acad. Sci. U.S.A. 94(21):11639-11644 (1997).