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PPEF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14402c

Product Information

Application	WB, IHC-P, E
Primary Accession	O14830
Other Accession	NP_006230.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34343
Calculated MW	86518
Antigen Region	304-333

Additional Information

Gene ID	5470
Other Names	Serine/threonine-protein phosphatase with EF-hands 2, PPEF-2, PPEF2
Target/Specificity	This PPEF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-333 amino acids from the Central region of human PPEF2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PPEF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

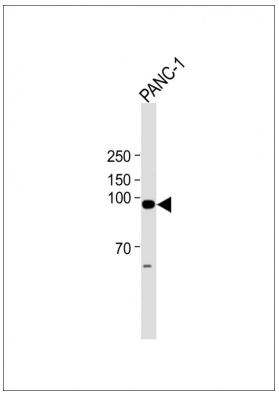
Background

This gene encodes 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 gene shares high sequence similarity with the Drosophila retinal degeneration C (rdgC) gene. [provided by RefSeq].

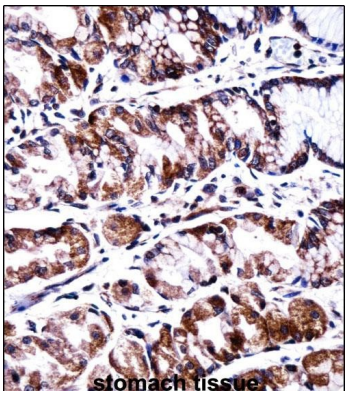
References

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)

Images



All lanes: Anti-PPEF2 Antibody (Center) at 1:2000 dilution + PANC-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 90 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



PPEF2 Antibody (Center) (AP14402c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PPEF2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.