

Recombinant Human PRPH2 Protein, Full Length, C-Flag tagged

Cat. No. PRPH2-18HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human peripherin 2 (retinal degeneration, slow) (PRPH2) with a C-Flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	Full Length
Description	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein found in the outer segment of both rod and cone photoreceptor cells. It may function as an adhesion molecule involved in stabilization and compaction of outer segment disks or in the maintenance of the curvature of the rim. This protein is essential for disk morphogenesis. Defects in this gene are associated with both central and peripheral retinal degenerations. Some of the various phenotypically different disorders are autosomal dominant retinitis pigmentosa, progressive macular degeneration, macular dystrophy and retinitis pigmentosa digenic.
Molecular Mass	39.1 kDa

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AA Sequence	MALLKVKFDQKKRVKLAQGLWLMNWFSVLAGIIIFSLGLFLKIGLRKRSDVMNNSH FVPNSLIGMGVLSCVFNSLAGKICYDALDPAKYARWKPWLKPYLAICVLFNIIFLVAL CCFLLRGSLNTLGQGLKNGMKYYRDTDTPGRCFMKKTIDMLQIEFKCCGNNNGFRD WFEIQWISNRYLDFSSKEVKDRIKSNVDGRYLVGVPFSCCNPSSPRPCIQYQITNN SAHYSYDHQTEELNLWVRGCRAALLSYSSLMNSMGVVTLLIWLFEVTITIGLRYLQT SLDGVSNP EESESESEGWLLEKSPETWKAFLESVKKLKGKNQVEAEGAGAGQAP EAGTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	> 0.05 µg/µL as determined by microplate BCA method
Storage Buffer	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

GENE INFORMATION

Gene Name	PRPH2 peripherin 2 (retinal degeneration, slow) [Homo sapiens (human)]
Official Symbol	PRPH2
Synonyms	PRPH2; peripherin 2 (retinal degeneration, slow); RDS, retinal degeneration, slow , retinal degeneration, slow (retinitis pigmentosa 7) , RP7; peripherin-2; CACD2; rd2; retinal peripherin; TSPAN22; tspan-22; tetraspanin-22; peripherin 2, homolog of

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mouse; peripherin, photoreceptor type; retinal degeneration slow protein; DS; RDS; RP7; AVMD; PRPH; AOFMD;

Gene ID [5961](#)

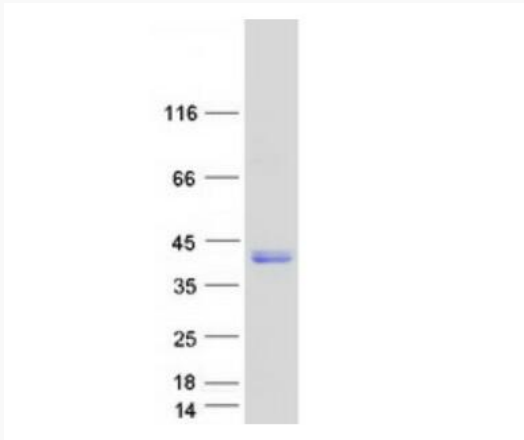
mRNA Refseq [NM_000322](#)

Protein Refseq [NP_000313](#)

MIM [179605](#)

UniProt ID [P23942](#)

SDS-PAGE



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