Recombinant Human GPHN, GST-tagged

Cat. No. GPHN-13423H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPHN protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-315a.a.
Description	This gene encodes a G-protein beta-subunit-like polypeptide which is a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This protein contains 6 WD repeats and is highly expressed in the heart. The gene maps to the region on chromosome 22q11, which is deleted in DiGeorge syndrome, trisomic in derivative 22 syndrome and tetrasomic in cat-eye syndrome. Therefore, this gene may contribute to the etiology of those disorders. Transcripts from this gene share exons with some transcripts from the C22orf29 gene.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM

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	GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	GPHN gephyrin [Homo sapiens]
Official Symbol	GPHN
Synonyms	GPHN; gephyrin; KIAA1385; GPH; GEPH; GPHRYN;
Gene ID	10243
mRNA Refseq	NM_001024218
Protein Refseq	NP_001019389
MIM	603930
UniProt ID	Q9NQX3
Chromosome Location	14q23.3
Pathway	GABAergic synapse, organism-specific biosystem; GABAergic synapse, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Molybdenum cofactor biosynthesis, organism-specific biosystem; molybdenum cofactor biosynthesis, conserved biosystem;
Function	ATP binding; metal ion binding; nucleotide binding; transferase activity;

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