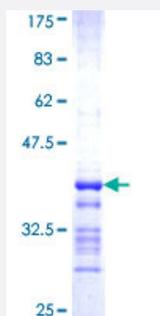


SEPHS2 (Human) Recombinant Protein (Q01)

Catalog # H00022928-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SEPHS2 partial ORF (NP_036380.2, 61 a.a. - 150 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GCKVPQEALLKLLAGLTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMDSCVI PLRHGGLSLVQTTDDFFYLVEDPYMM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.53
Interspecies Antigen Sequence	Mouse (77); Rat (79)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SEPHS2

Entrez GeneID [22928](#)

GeneBank Accession# [NM_012248](#)

Protein Accession# [NP_036380.2](#)

Gene Name SEPHS2

Gene Alias SPS2

Gene Description selenophosphate synthetase 2

Omim ID [606218](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons. This protein itself contains a selenocysteine residue in its predicted active site. The 3' UTR of the gene has a stem-loop secondary structure called a selenocysteine insertion sequence (SECIS) element, which allows UGA to direct the incorporation of selenocysteine rather than signal a translational stop. Alternatively spliced transcripts have been identified, but their biological validity has not been determined. [provided by RefSeq]

Other Designations OTTHUMP00000045871|selenide,water dikinase 2|selenium donor protein 2|selenophosphate synthase

Pathway

- [Metabolic pathways](#)
- [Selenoamino acid metabolism](#)