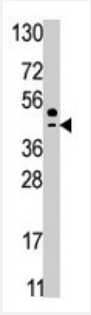
SEPHS2 polyclonal antibody

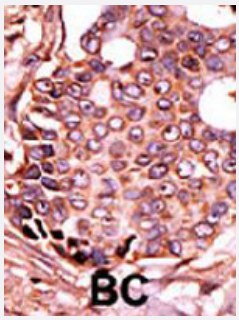
Catalog # PAB2041 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of SEPHS2 polyclonal antibody (Cat # PAB2041) in HepG2 cell line lysate (35 ug/lane). SEPHS2 (arrow) was detected using the purified Polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with SEPHS2 polyclonal antibody (Cat # PAB2041) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.
This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SEPHS2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human SEPHS2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of SEPHS2 polyclonal antibody (Cat # PAB2041) in HepG2 cell line lysate (35 ug/lane). SEPHS2 (arrow) was detected using the purified Polyclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human cancer tissue reacted with SEPHS2 polyclonal antibody (Cat # PAB2041) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.
  This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. BC = breast carcinoma.

Gene Info — SEPHS2

Entrez GeneID	22928
Protein Accession#	NP_036380;Q99611
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

Publication Reference

- Selenophosphate synthetase genes from lung adenocarcinoma cells: Sps1 for recycling L-selenocysteine and Sps2 for selenite assimilation.

  Tamura T, Yamamoto S, Takahata M, Sakaguchi H, Tanaka H, Stadtman TC, Inagaki K.

  PNAS 2004 Nov; 101(46):16162.

- Novel selenoproteins identified in silico and in vivo by using a conserved RNA structural motif.

  Lescure A, Gautheret D, Carbon P, Krol A.

  The Journal of Biological Chemistry 1999 Dec; 274(53):38147.

- Identification of a novel selD homolog from eukaryotes, bacteria, and archaea: is there an autoregulatory mechanism in selenocysteine metabolism?

  Guimaraes MJ, Peterson D, Vicari A, Cocks BG, Copeland NG, Gilbert DJ, Jenkins NA, Ferrick DA, Kastelein RA, Bazan JF, Zlotnik A.

  PNAS 1996 Dec; 93(26):15086.

  Application: IP, WB-Tr, Monkey, COS-7 cells

Pathway

- Metabolic pathways
- Selenoamino acid metabolism