

Rabbit Selenophosphate synthetase 1/SEPHS1 Polyclonal Antibody | anti-SEPHS1 antibody

Anti-Selenophosphate synthetase 1/SEPHS1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126566	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Selenophosphate synthetase 1/SEPHS1; Polyclonal Antibody; Anti-Selenophosphate synthetase 1/SEPHS1 Antibody Picoband; anti-SEPHS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SEPHS1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human Selenophosphate synthetase 1/SEPHS1 (RERDKVMPLIIQGFKDAEEA).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of Selenophosphate Synthetase 1/SEPHS1 using anti-Selenophosphate Synthetase 1/SEPHS1 antibody (AAA126566).Selenophosphate Synthetase 1/SEPHS1 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Selenophosphate Synthetase 1/SEPHS1 Antibody (AAA126566) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of Selenophosphate Synthetase 1/SEPHS1 using anti-Selenophosphate Synthetase 1/SEPHS1 antibody (AAA126566).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Jurkat whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human MOLT-4 whole cell lysates,Lane 4: human SiHa whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Selenophosphate Synthetase 1/SEPHS1 antigen affinity purified polyclonal antibody (#AAA126566) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Selenophosphate Synthetase 1/SEPHS1 at approximately 50 kDa. The expected band size for Selenophosphate Synthetase 1/SEPHS1 is at 43 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SEPHS1 antibody	Selenide, water dikinase 1 is an enzyme that in humans is encoded by the SEPHS1 gene. 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.
Product Categories/Family for anti-SEPHS1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	307219240
NCBI GeneID	22929
NCBI Accession #	NP_001182533
NCBI GenBank Nucleotide #	NM_001195604
UniProt Accession #	P49903; Q5T5U8; Q5T5U9; Q9BVT4; B4DWK0; D3DRS9; D6PSQ9
Molecular Weight	35,620 Da
NCBI Official Full Name	selenide, water dikinase 1 isoform 3
NCBI Official Synonym Full Names	selenophosphate synthetase 1
NCBI Official Symbol	SEPHS1
NCBI Official Synonym Symbols	SPS; SELD; SPS1
NCBI Protein Information	selenide, water dikinase 1; selenium donor protein 1; selenophosphate synthase 1; selenophosphate synthetase 1 +E9; selenophosphate synthetase 1 +E9a; selenophosphate synthetase 1 delta E2; selenophosphate synthetase 1 delta E8; selenophosphate synthetase
UniProt Protein Name	Selenide, water dikinase 1
UniProt Gene Name	SEPHS1
UniProt Synonym Gene Names	SELD; SPS; SPS1
UniProt Entry Name	SPS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/selenophosphate-synthetase-1-sephs1-antibody-immunohistochemistry-western-blot-elisa/126566>