


Product datasheet

Anti-PSPH antibody ab96414

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Overview

Product name	Anti-PSPH antibody
Description	Rabbit polyclonal to PSPH
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow 
Immunogen	Recombinant fragment corresponding to Human PSPH aa 1-195 (N terminal).
Positive control	293T, A431, H1299, HeLa, HepG2, MOLT4, Raji cell lysates
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96414 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 25 kDa.
ICC/IF		1/100 - 1/200.

Target

Function

Catalyzes the last step in the biosynthesis of serine from carbohydrates. The reaction mechanism proceeds via the formation of a phosphoryl-enzyme intermediates.

Pathway

Amino-acid biosynthesis; L-serine biosynthesis; L-serine from 3-phospho-D-glycerate: step 3/3.

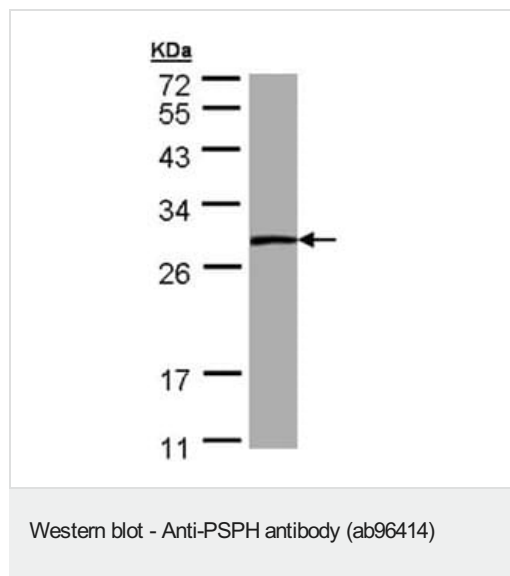
Involvement in disease

Defects in PSPH are the cause of phosphoserine phosphatase deficiency (PSPHD) [MIM:614023]. A disorder that results in pre- and postnatal growth retardation, moderate psychomotor retardation and facial features suggestive of Williams syndrome.

Sequence similarities

Belongs to the SerB family.

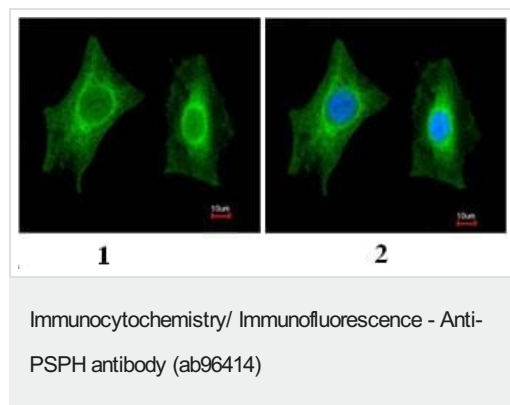
Images



Anti-PSPH antibody (ab96414) at 1/1000 dilution + A431 whole cell lysate at 30 μ g

Predicted band size: 25 kDa

12% SDS PAGE



Immunofluorescence analysis of paraformaldehyde-fixed A549 using ab96414 at 1:200 dilution: (1) without DNA probe, (2) merged with a DNA probe.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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