


Product datasheet

Anti-Phosphoserine Aminotransferase antibody ab96136

★★★★★ [2 Abreviews](#) [15 References](#) [2 Images](#)

Overview

Product name	Anti-Phosphoserine Aminotransferase antibody
Description	Rabbit polyclonal to Phosphoserine Aminotransferase
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Cow 
Immunogen	Recombinant protein fragment with a sequence corresponding to a region within amino acids 48 and 298 of Human Phosphoserine Aminotransferase (NP_478059).
Positive control	293T, A431, H1299, HeLa, HepG2, Molt-4 and Raji cell lines. H1299 whole cell lysate for WB and A549 cells for IF.
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. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96136 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	★★★★★ (2)	1/500 - 1/3000. Predicted molecular weight: 40 kDa.
ICC/IF		1/100 - 1/200.

Target

Function

Catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine.

Tissue specificity

Expressed at high levels in the brain, liver, kidney and pancreas, and very weakly expressed in the thymus, prostate, testis and colon.

Pathway

Amino-acid biosynthesis; L-serine biosynthesis; L-serine from 3-phospho-D-glycerate: step 2/3. Cofactor biosynthesis; pyridoxine 5'-phosphate biosynthesis; pyridoxine 5'-phosphate from D-erythrose 4-phosphate: step 3/5.

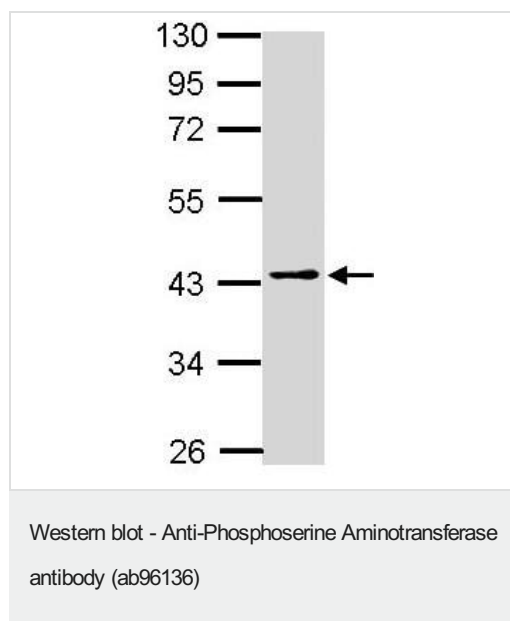
Involvement in disease

Defects in PSAT1 are the cause of phosphoserine aminotransferase deficiency (PSATD) [MIM:610992]. PSATD is characterized biochemically by low plasma and cerebrospinal fluid concentrations of serine and glycine and clinically by intractable seizures, acquired microcephaly, hypertonia, and psychomotor retardation.

Sequence similarities

Belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family. SerC subfamily.

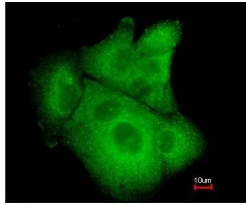
Images



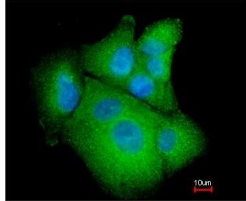
Anti-Phosphoserine Aminotransferase antibody (ab96136) at 1/1000 dilution + H1299 whole cell lysate at 30 µg

Predicted band size: 40 kDa

10% SDS PAGE



Panel 1



Panel 2

ab96136, at 1/200 staining paraformaldehyde-fixed A549 cells by Immunofluorescence (Panel 1) and merged with DNA probe (Panel 2).

Immunocytochemistry/ Immunofluorescence - Anti-Phosphoserine Aminotransferase antibody (ab96136)

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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