# abcam

# Product datasheet

# Recombinant Human Phosphoserine Aminotransferase protein ab116152

# 1 图像

# 描述

产品名称 重组人Phosphoserine Aminotransferase蛋白

纯**度** > 90 % SDS-PAGE.

ab116152 was purified using conventional chromatography.

表达系统 Escherichia coli

Accession Q9Y617

**蛋白长度** Full length protein

无动物成分 No

**性**质 Recombinant

种属 Human

序列 MGSSHHHHHH SSGLVPRGSH MGSHMDAPRQ

VVNFGPGPAK LPHSVLLEIQ KELLDYKGVG
ISVLEMSHRS SDFAKIINNT ENLVRELLAV
PDNYKVIFLQ GGGCGQFSAV PLNLIGLKAG
RCADYVVTGA WSAKAAEEAK KFGTINIVHP
KLGSYTKIPD PSTWNLNPDA SYVYYCANET
VHGVEFDFIP DVKGAVLVCD MSSNFLSKPV
DVSKFGVIFA GAQKNVGSAG VTVVIVRDDL
LGFALRECPS VLEYKVQAGN SSLYNTPPCF
SIYVMGLVLE WIKNNGGAAA MEKLSSIKSQ
TIYEIIDNSQ GFYVCPVEPQ NRSKMNIPFR

SVGGIRASLY NAVTIEDVQK LAAFMKKFLE MHQL

IGNAKGDDAL EKRFLDKALE LNMLSLKGHR

预测分子量 43 kDa including tags

**氨基酸** 1 to 370

标签 His tag N-Terminus

#### 技术指标

Our Abpromise guarantee covers the use of ab116152 in the following tested applications.

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

应用 SDS-PAGE

1

Mass Spectrometry

质**谱法** MALDI-TOF

形式 Liquid

#### 制备和贮存

稳定性和存储 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol

#### 常规信息

功能 Catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-

hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine.

组织特异性 Expressed at high levels in the brain, liver, kidney and pancreas, and very weakly expressed in the

thymus, prostate, testis and colon.

通路 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.

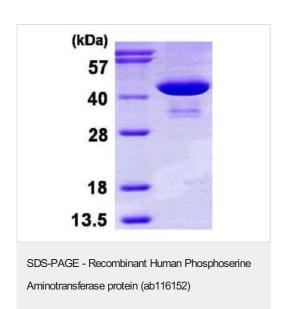
疾病相关 Defects in PSAT1 are the cause of phosphoserine aminotransferase deficiency (PSATD)

[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.

序列相似性 Belongs to the class-V pyridoxal-phosphate-dependent aminotransferase family. SerC subfamily.

## 图片



15% SDS-PAGE image showing 3ug ab116152

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