# abcam

## Product datasheet

## Anti-PTS/PTPS (phospho S19) antibody [EPR1517(2)] ab109462



重组 RabMAb

4 图像

#### 概述

产品名称 Anti-PTS/PTPS (phospho S19)抗体[EPR1517(2)]

描述 兔单克隆抗体[EPR1517(2)] to PTS/PTPS (phospho S19)

宿主 Rabbit

经测试应用 适用于: WB, IHC-P, ICC/IF

不适用于: Flow Cyt

种属反应性 与反应: Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 HUVEC cell lysates; Human brain tissue; HeLa cells

常规说明 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb patents**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

存储溶液 pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

纯度 Protein A purified

**克隆** 单克隆

**克隆编号** EPR1517(2)

同种型 lgG

#### 应用

### The Abpromise guarantee Abpromise™承诺保证使用ab109462于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应 <b>用</b>	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 17 kDa (predicted molecular weight: 16 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Heat up to 98 °C, below boiling, and then let cool for 10-20 minutes.
ICC/IF		1/250 - 1/500.

应用说明 Is unsuitable for Flow Cyt.

靶标

功能 Involved in the biosynthesis of tetrahydrobiopterin, an essential cofactor of aromatic amino acid

hydroxylases. Catalyzes the transformation of 7,8-dihydroneopterin triphosphate into 6-pyruvoyl

tetrahydropterin.

通路 Cofactor biosynthesis; tetrahydrobiopterin biosynthesis; tetrahydrobiopterin from 7,8-

dihydroneopterin triphosphate: step 1/3.

疾病相关 Defects in PTS are the cause of BH4-deficient hyperphenylalaninemia type A (HPABH4A)

[MIM:261640]; also called 6-pyruvoyl-tetrahydropterin synthase deficiency (PTS deficiency) or hyperphenylalaninemia tetrahydrobiopterin-deficient due to PTS deficiency. HPABH4A is an autosomal recessive disorder characterized by depletion of the neurotransmitters dopamine and

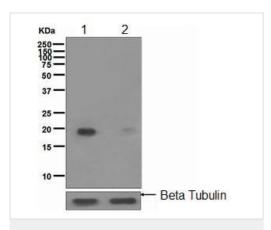
serotonin, and clinically by severe neurological symptoms unresponsive to the classic

phenylalanine-low diet.

序列相似性 Belongs to the PTPS family.

翻译后修饰 Phosphorylation of Ser-19 is required for maximal enzyme activity.

图片



Western blot - Anti-PTS/PTPS (phospho S19) antibody [EPR1517(2)] (ab109462)

**All lanes :** Anti-PTS/PTPS (phospho S19) antibody [EPR1517(2)] (ab109462) at 1/1000 dilution

Lane 1: HUVEC cell lysate

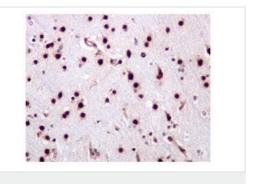
Lane 2: HUVEC cell lysate treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

#### Secondary

All lanes: HRP-labelled goat anti-rabbit at 1/2000 dilution

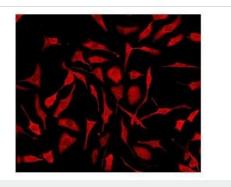
**Predicted band size:** 16 kDa **Observed band size:** 17 kDa



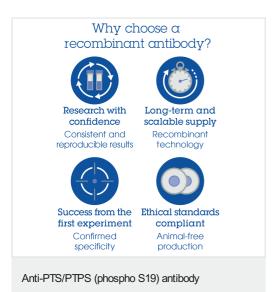
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-PTS/PTPS (phospho S19) antibody [EPR1517(2)] (ab109462)

ab109462, at a 1/250 dilution, staining PTS/PTPS (phospho S19) in paraffin embedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PTS/PTPS (phospho S19) antibody [EPR1517(2)] (ab109462) ab109462, at a 1/250 dilution, staining PTS/PTPS (phospho S19) in HeLa cells by Immunofluorescence.



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

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#### Terms and conditions

[EPR1517(2)] (ab109462)

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