

Anti-Huntingtin (phospho S421) antibody ab2174

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概述

产品名称

Anti-Huntingtin (phospho S421)抗体

描述

兔多克隆抗体to Huntingtin (phospho S421)

① 该产品是 **快线抗体**，通过亲和纯化得到。对抗原肽有高灵敏度及特异性(ELISA测试)。

[Read the terms of use »](#)

宿主


Rabbit

特异性

Detects a 190kDa band in PC-3 cells, which may correspond to Huntingtin. Stains neuronal cytoplasm in immunohistochemistry (the expected localisation). The antibody has not been conclusively tested for specificity for phospho S421 Huntingtin.

种属反应性

与反应: Human

预测可用于: Pig 

免疫原

Synthetic peptide corresponding to Human Huntingtin aa 400-500 (phospho S421).

 [Run BLAST with](#)

 [Run BLAST with](#)

常规说明

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.

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

性能

形式

Liquid

存放说明

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.

存储溶液

Preservative: 0.01% Sodium azide

Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride

纯度

Immunogen affinity purified

克隆

多克隆

同种型

IgG

应用

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

Fast track terms of use

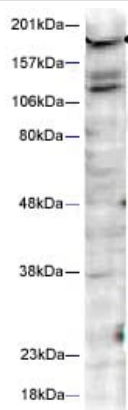
应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 348 kDa.
ELISA		Use at an assay dependent concentration. This antibody gave a positive result in ELISA against the immunizing peptide .

靶标

功能	May play a role in microtubule-mediated transport or vesicle function.
组织特异性	Expressed in the brain cortex (at protein level). Widely expressed with the highest level of expression in the brain (nerve fibers, varicosities, and nerve endings). In the brain, the regions where it can be mainly found are the cerebellar cortex, the neocortex, the striatum, and the hippocampal formation.
疾病相关	Defects in HTT are the cause of Huntington disease (HD) [MIM:143100]. HD is an autosomal dominant neurodegenerative disorder characterized by involuntary movements (chorea), general motor impairment, psychiatric disorders and dementia. Onset of the disease occurs usually in the third or fourth decade of life and symptoms progressively worsen leading to death in 10 to 20 years. Onset and clinical course depend on the degree of poly-Gln repeat expansion, longer expansions resulting in earlier onset and more severe clinical manifestations. HD affects 1 in 10,000 individuals of European origin. Neuropathology of Huntington disease displays a distinctive pattern with loss of neurons, especially in the caudate and putamen (striatum).
序列相似性	Belongs to the huntingtin family. Contains 10 HEAT repeats.
结构域	The N-terminal Gln-rich and Pro-rich domain has great conformational flexibility and is likely to exist in a fluctuating equilibrium of alpha-helical, random coil, and extended conformations.
翻译后修饰	Cleaved by apopain downstream of the polyglutamine stretch. The resulting N-terminal fragment is cytotoxic and provokes apoptosis. Forms with expanded polyglutamine expansion are specifically ubiquitinated by SYVN1, which promotes their proteasomal degradation.
细胞定位	Cytoplasm. Nucleus. The mutant Huntingtin protein colocalizes with AKAP8L in the nuclear matrix of Huntington's disease neurons.

图片

This Fast-Track antibody is not yet fully characterised. These images represent **inconclusive preliminary data**.



Western blot - Anti-Huntingtin (phospho S421) antibody (ab2174)

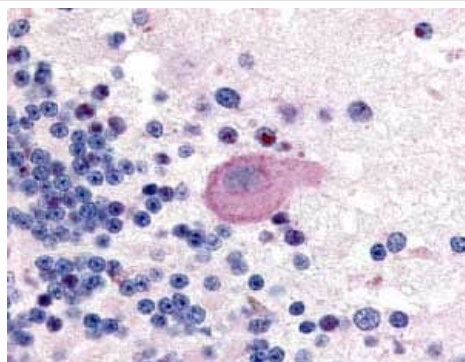
Anti-Huntingtin (phospho S421) antibody (ab2174) at 1/1000 dilution + human PC-3 cell lysate

Predicted band size: 348 kDa

Observed band size: 190 kDa

Additional bands at: 120 kDa, 130 kDa. We are unsure as to the identity of these extra bands.

The 190kDa band may correspond to Huntingtin. However, it is not clear whether the antibody is specific for the phospho S421 form.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Huntingtin (phospho S421) antibody (ab2174)

ab2174 was used at a 1:100 dilution to detect phosphorylated Huntingtin by immunohistochemistry in human brain cerebellum. Positive cytoplasmic staining is observed in neurons. Tissue was formalin-fixed and paraffin embedded. Detection was with AEC (pink), nuclear counterstaining with Haematoxylin (blue).

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

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