

Product datasheet

Anti-Huntingtin (phospho S421) antibody ab2174

★★★★☆ 1 Abreviews [画像数 2](#)

製品の概要

製品名 Anti-Huntingtin (phospho S421) antibody
製品の詳細 Rabbit polyclonal to Huntingtin (phospho S421)

This product is a [fast track antibody](#). It has been affinity purified and shows high titre values against the immunizing peptide by ELISA.

[Read the terms of use »](#)

由来種 Rabbit
特異性 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.

種交差性
交差が予測される動物種: Human, Pig

免疫原 Synthetic peptide: RSRSG_pSIVE, corresponding to amino acids 416-424 of Human Huntingtin

[Run BLAST with](#)

[Run BLAST with](#)

製品の特性

製品の状態 Liquid
保存方法 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.
バッファー 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, 0.01% Sodium Azide, pH 7.2
精製度 Immunogen affinity purified
ポリ/モノ ポリクローナル
アイソタイプ IgG

アプリケーション

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](#)

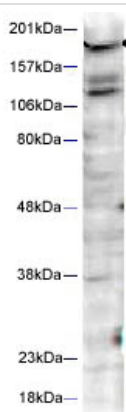
アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 348 kDa.
ELISA		Use at an assay dependent concentration. This antibody gave a positive result in ELISA against the immunizing peptide .
IHC-Fr	★★★★☆	1/250.

ターゲット情報

機能	May play a role in microtubule-mediated transport or vesicle function.
組織特異性	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.
関連疾患	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).
配列類似性	Belongs to the huntingtin family. Contains 10 HEAT repeats.
ドメイン	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.
翻訳後修飾	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.
細胞内局在	Cytoplasm. Nucleus. The mutant Huntingtin protein colocalizes with AKAP8L in the nuclear matrix of Huntington's disease neurons.

画像

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



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

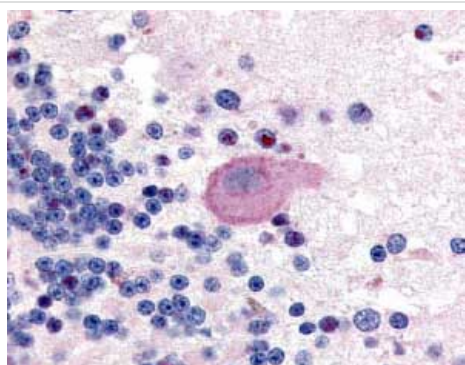
Anti-Huntingtin (phospho S421) antibody (ab2174) at 1/1000 dilution + human PC-3 cell lysate

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).

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