Product datasheet

Anti-ADAMTS4 antibody ab185722

Overview

Product name: Anti-ADAMTS4 antibody
Description: Rabbit polyclonal to ADAMTS4
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human
Predicted to work with: Cow, Orangutan

Immunogen: Recombinant fragment corresponding to Human ADAMTS4 aa 52-315.
Sequence:

ASPLPREEE IVFPEKLNGS VLPQSGAPAR
LLCRQAFGE TLLLEEDS GVQVEGLTVQ
YLQAEPELLL GAEPTYLTG TINGDPESVA
SLHWDGGALL GVLQYRGAEL HLQPLEGGTP
NSAGGPGAHI LRRKSPASGQ GPMCNVKAPL
GSPSPRPRRA KRFAslsRFV ETLVVADDKM
AAFHGAGLKR YLLTVMAAAA KAFKHPsIRN
PVSLVVTTRLV ILGSGEEGPO VGPSAAQTLR
SFCAwQRGLN TPESDPDHF DTIAL

Database link: O75173


Properties

Form: Liquid

Storage buffer: pH: 7.3
Preservative: 0.02% Sodium azide
 Constituents: 49% PBS, 50% Glycerol

Purity: Immunogen affinity purified
**Clonality**
Polyclonal

**Isotype**
IgG

**Applications**

Our Abpromise guarantee covers the use of **ab185722** in the following tested applications.

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

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<th>Abreviews</th>
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<td>IHC-P</td>
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<td>1/50 - 1/200.</td>
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**Target**

**Function**
Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the ‘392-Glu-Ala-393’ site.

**Tissue specificity**
Expressed in brain, lung and heart. Expressed at very low level in placenta and skeletal muscles.

**Sequence similarities**
Contains 1 disintegrin domain.
Contains 1 peptidase M12B domain.
Contains 1 TSP type-1 domain.

**Domain**
The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.
The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

**Post-translational modifications**
The precursor is cleaved by a furin endopeptidase.

**Cellular localization**
Secreted > extracellular space > extracellular matrix.

**Images**

All lanes : Anti-ADAMTS4 antibody (ab185722) at 1/500 dilution

Lane 1 : H460 cell line extract
Lane 2 : 293T cell line extract
Lane 3 : SH-SY5Y cell line extract
Lane 4 : Mouse liver lysate
Lane 5 : Mouse brain extract
Lane 6 : Mouse liver extract
Predicted band size: 90 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer tissue labelling ADAMTS4 with ab185722 at 3.74 mg/ml.

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

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