Recmmnent Human Reein protein (His tag) ab236169

Overview

Product name: Recombinant Human Reelin protein (His tag)
Protein length: Protein fragment

Description

Nature: Recombinant
Source: Escherichia coli
Amino Acid Sequence
Accession: P78509
Species: Human

Sequence:
AAGYYPFSFPLCTHGEGEIQGEVLSILHIAG
NPTYVPQGEYH
VTISTTFDGLLVYTVSTSVQASQGGSAFQFGI
MSDHQFGNQFM
CSVVASHVSHLPTTNLSF1IAPPAGTCVNMATATH
RGQVFKDALAQ
QLCEQGAPTVDTVPHALAEIHDSILRDFDSYHQLQL
NPNIWVECNC
ETGEQCGAIMHGNAYTFCEPYGPRELITT

Molecular weight: 29 kDa including tags
Amino acids: 26 to 254
Tags: His tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of ab236169 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Applications: SDS-PAGE
Purity: > 90 % SDS-PAGE
Form: Liquid
**Preparation and Storage**

**Stability and Storage**  
Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
Constituents: Tris buffer, 50% Glycerol

**General Info**

**Function**  
Extracellular matrix serine protease that plays a role in layering of neurons in the cerebral cortex and cerebellum. Regulates microtubule function in neurons and neuronal migration. Affects migration of sympathetic preganglionic neurons in the spinal cord, where it seems to act as a barrier to neuronal migration. Enzymatic activity is important for the modulation of cell adhesion. Binding to the extracellular domains of lipoprotein receptors VLDLR and LRP8/APOER2 induces tyrosine phosphorylation of DAB1 and modulation of TAU phosphorylation.

**Tissue specificity**  
Abundantly produced during brain ontogenesis by the Cajal-Retzius cells and other pioneer neurons located in the telencephalic marginal zone and by granule cells of the external granular layer of the cerebellum. In adult brain, preferentially expressed in GABAergic interneurons of prefrontal cortices, temporal cortex, hippocampus and glutamatergic granule cells of cerebellum. Expression is reduced to about 50% in patients with schizophrenia. Also expressed in fetal and adult liver.

**Involvement in disease**  
Lissencephaly 2

**Sequence similarities**  
Belongs to the reelin family.  
Contains 16 BNR repeats.  
Contains 8 EGF-like domains.  
Contains 1 reelin domain.

**Developmental stage**  
Expressed in fetal and postnatal brain and liver. Expression in postnatal human brain is high in the cerebellum.

**Domain**  
The basic C-terminal region is essential for secretion.

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

**Images**

Analysis of ab236169 by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
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