

Product datasheet

Recombinant Human CDKL5 protein ab131695

1 Image

Overview

<b>Product name</b>	Recombinant Human CDKL5 protein
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">O76039</a>
<b>Species</b>	Human
<b>Molecular weight</b>	84 kDa including tags
<b>Amino acids</b>	1 to 498

Specifications

Our [Abpromise guarantee](#) covers the use of **ab131695** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Western blot
<b>Purity</b>	> 90 % SDS-PAGE. Assessed by densitometry.
<b>Form</b>	Liquid

Preparation and Storage

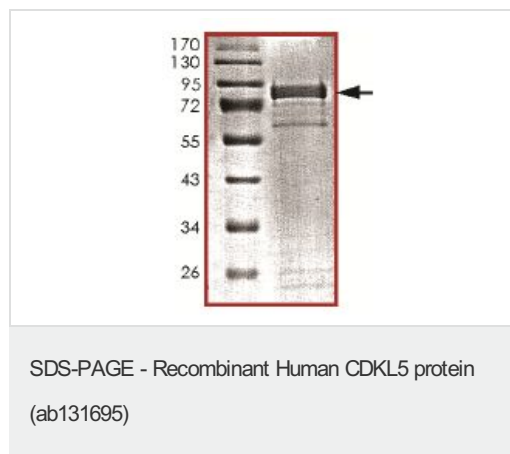
<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.005% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol, 0.29% Sodium chloride
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General Info

## General info

<b>Function</b>	Mediates phosphorylation of MECP2.
<b>Tissue specificity</b>	Expressed in brain, lung, kidney, prostate, ovary, placenta, pancreas and testis.
<b>Involvement in disease</b>	Note=Chromosomal aberrations involving CDKL5 are found in patients manifesting early-onset seizures and spasms and psychomotor impairment. Translocation t(X;6)(p22.3;q14); translocation t(X;7)(p22.3;p15). Defects in CDKL5 are a cause of epileptic encephalopathy early infantile type 2 (EIEE2) [MIM:300672]; also known as atypical CDKL5-related Rett syndrome. EIEE2 is a severe form of epilepsy characterized by seizures or spasms beginning in infancy. Patients manifest features resembling Rett syndrome such as microcephaly, lack of speech development, stereotypic hand movements.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Autophosphorylated.
<b>Cellular localization</b>	Nucleus.

## Images



The purity of ab131695 was determined to be >90% by densitometry.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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