

## Product datasheet

# Recombinant Human CDKL5 protein ab159606

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>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human
<b>Sequence</b>	RPDNSFHENNVSTRVSSLPSESSSGTNHSKRQPAFD PWKSPENISHSEQL KEKEKQGFFRSMKMKKKKKSQTPNSDSPDLLTLQKSI HSASTPSSRPKEW RPEKISDLQT
<b>Amino acids</b>	722 to 831
<b>Tags</b>	proprietary tag N-Terminus

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab159606** 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>	Western blot ELISA
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

### 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: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
------------------------------	--

## General Info

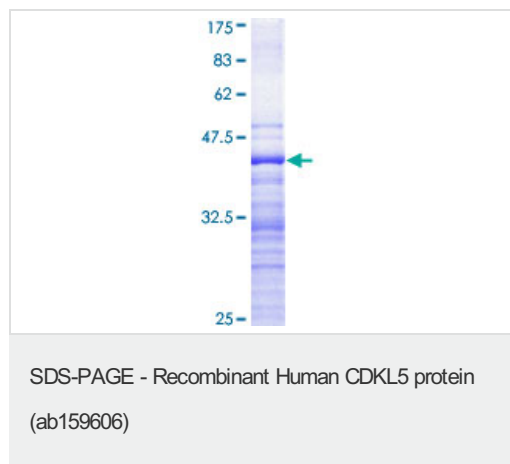
---

<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

---



ab159606 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise,

please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors