

CDKL5 (STK9) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7244b**Specification**

CDKL5 (STK9) Antibody (C-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	O76039
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	982-1012

CDKL5 (STK9) Antibody (C-term) - Additional Information**Gene ID** 6792**Other Names**

Cyclin-dependent kinase-like 5, Serine/threonine-protein kinase 9, CDKL5, STK9

Target/Specificity

This CDKL5 (STK9) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 982-1012 amino acids from the C-terminal region of human CDKL5 (STK9).

Dilution

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CDKL5 (STK9) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CDKL5 (STK9) Antibody (C-term) - Protein Information**Name** CDKL5 ([HGNC:11411](#))**Synonyms** STK9

Function Mediates phosphorylation of MECP2 (PubMed:[15917271](#), PubMed:[16935860](#)). May regulate ciliogenesis (PubMed:[29420175](#)).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, cilium basal body Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

Tissue Location

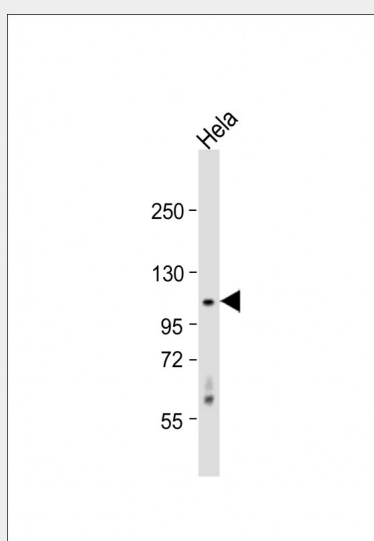
Expressed in brain, lung, kidney, prostate, ovary, placenta, pancreas and testis

CDKL5 (STK9) Antibody (C-term) - Protocols

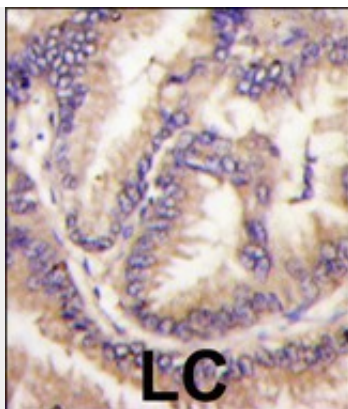
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CDKL5 (STK9) Antibody (C-term) - Images



Anti-STK9 Antibody (F997) at 1:1000 dilution + HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 116 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with STK9 Antibody (C-term)(Cat.#AP7244b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

CDKL5 (STK9) Antibody (C-term) - Background

Defects in STK9, a dual-specificity serine/threonine kinase, are a cause of atypical Rett syndrome. Rett syndrome is an X-linked dominant disease. It is a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females. Patients appear to develop normally until 6 to 18 months of age, then gradually lose speech and purposeful hand movements and develop microcephaly, seizures, autism, ataxia, intermittent hyperventilation, and stereotypic hand movements. After initial regression, the condition stabilizes and patients usually survive into adulthood. Rett syndrome due to CDKL5-associated mutations is characterized by a severe early-onset phenotype and atypical features such as infantile spasms.

CDKL5 (STK9) Antibody (C-term) - References

Kalscheuer, V.M., et al., Am. J. Hum. Genet. 72(6):1401-1411 (2003).
Montini, E., et al., Genomics 51(3):427-433 (1998).