

## CDKL1 Antibody

Catalog No: #46454

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## Description

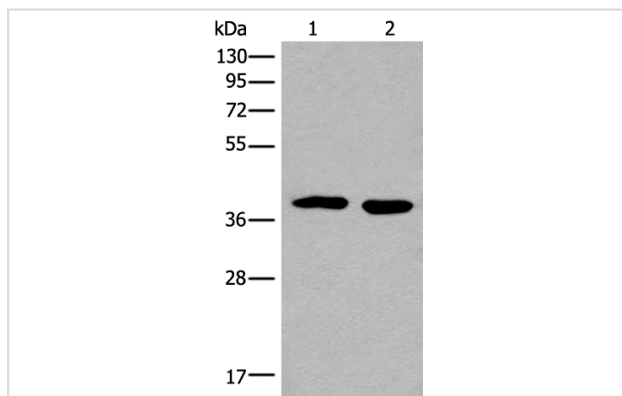
Product Name	CDKL1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total CDKL1 protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide corresponding to residues near the C terminal of human CDKL1
Target Name	CDKL1
Other Names	P42; KKIALRE
Accession No.	Swiss-Prot:Q00532NCBI Gene ID:8814NCBI Protein:NP_004187
Uniprot	Q00532
GeneID	8814;
Calculated MW	42 kDa
Concentration	0.5mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:200-1:1000

Immunohistochemistry: 1: 20-100

## Images

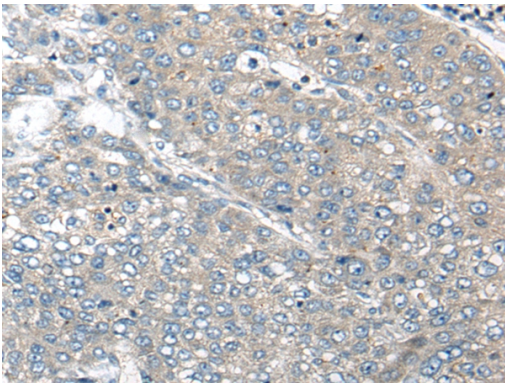


Gel: 8%SDS-PAGE

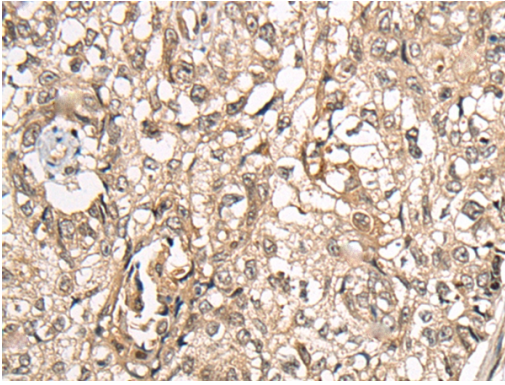
lysate: 40 µg, Lane 1-2: Human prostate tissue and Human stomach tissue lysates,

Primary antibody: 46454 (CDKL1 Antibody) at dilution 1/200

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using 46454(CDKL1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: x200)



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using 46454(CDKL1 Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: x200)

## Background

The activation of signal transduction pathways by growth factors, hormones and neurotransmitters is mediated by the MAP kinases ERK 1 and ERK 2. ERK proteins are regulated by dual phosphorylation at specific tyrosine and threonine sites mapping within a characteristic Thr-Glu-Tyr motif. The protein kinase p56 KKIAMRE is distantly related to the MAP kinase group of proteins and is closely related to p42 KKIALRE. KKIAMRE is predominantly expressed in testis, kidney, brain and lung. KKIAMRE contains the conserved MAP kinase dual phosphorylation motif in the sequence Thr-Asp-Tyr and is activated by treatment of cells by EGF. However, unlike other MAP kinases, the EGF-stimulated kinase activity does not require phosphorylation of KKIAMRE and KKIALRE in the Thr-Asp-Tyr motif.

Note: This product is for in vitro research use only