

## Product datasheet for **TA323961S**

### CDK5 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Jurkat and NIH/3T3 cells IHC: 25-100 Positive control: Human colon cancer Predicted cell location: Cytoplasm or Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full length fusion protein
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33 kDa
Gene Name:	cyclin-dependent kinase 5
Database Link:	<a href="#">NP_001157882</a> <a href="#">Entrez Gene 12568 Mouse</a> <a href="#">Entrez Gene 140908 Rat</a> <a href="#">Entrez Gene 1020 Human</a> <a href="#">Q00535</a>



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**Background:**

Cell division protein kinase 5 is an enzyme that in humans is encoded by the CDK5 gene. The protein encoded by this gene is part of the cyclin-dependent kinase family. CDK5 is required for proper development of the brain and to be activated; CDK5 must associate with CDK5R1 or CDK5R2. Cdk5 is involved in the processes of neuronal maturation and migration; phosphorylating the key intracellular adaptor of the reelin signaling chain. Experiments performed on mice lacking p35; a necessary activator of cdk5 in early brain development; showed that the normal layering of neurons was reversed in the cortex. This disrupted lamination again implicated cdk5 in neuronal migration and plasticity. Cdk5 is also involved in the regulation of synaptic vesicle exocytosis via phosphorylation of munc-18.

**Synonyms:**

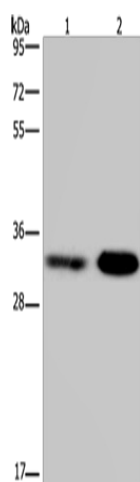
PSSALRE

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

Alzheimer's disease, Axon guidance

**Product images:**

Gel: 10%SDS-PAGE

Lysate: 40 µg

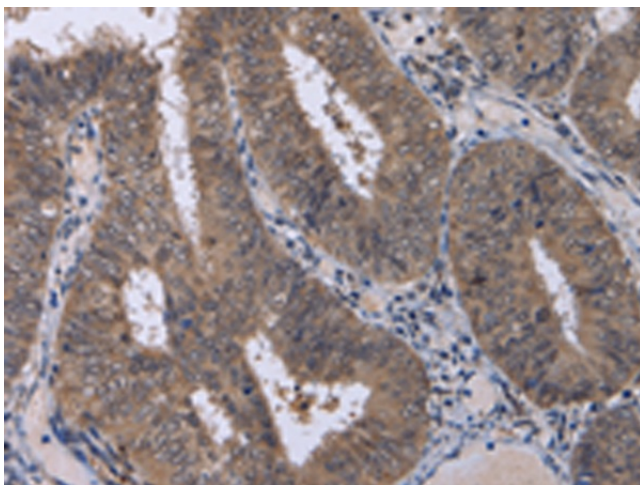
Lane 1-2: Jurkat cells

NIH/3T3 cells

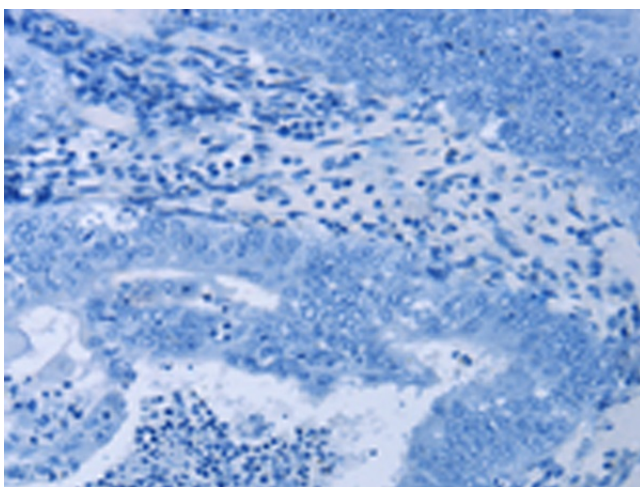
Primary antibody: [TA323961] (CDK5 Antibody) at dilution 1/300

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

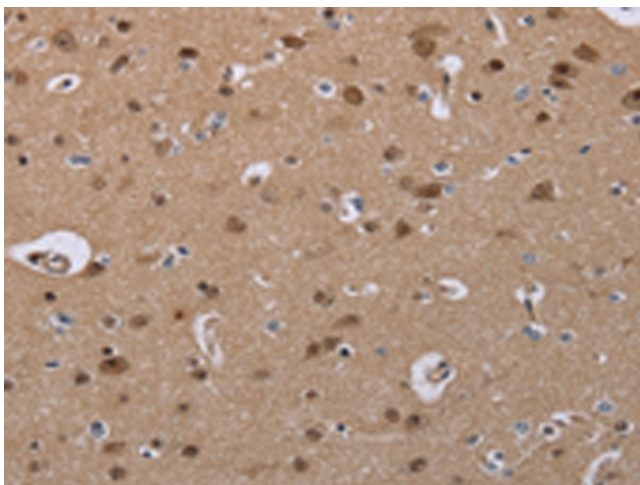
Exposure time: 1 minute



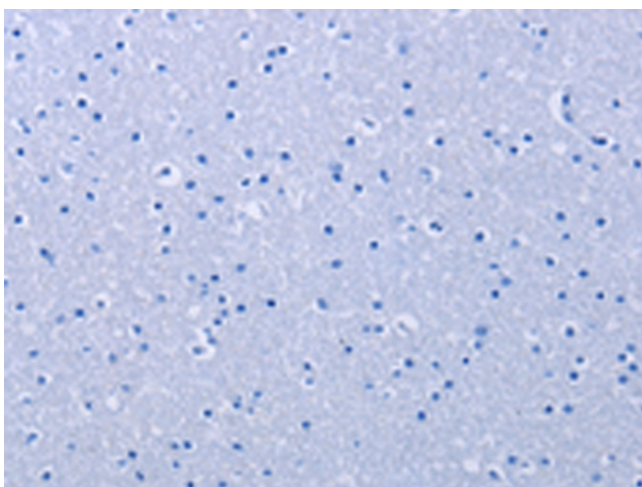
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA323961] (CDK5 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA323961] (CDK5 Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323961] (CDK5 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA323961] (CDK5 Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )