

## Anti-CDK5 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow)
Molecular Weight:	Theoretical: 32 kDa. Actual: 27 kDa.
Purification:	Protein A purified

## Applications

1. Blank control (Black line): Molt4 (Black).  
 Primary Antibody (green line): Rabbit Anti-CDK5 antibody (TMAB-04168)  
 Dilution: 1 µg /10<sup>6</sup> cells;  
 Isotype Control Antibody (orange line): Rabbit IgG.  
 Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647  
 Dilution: 1 µg /test.

## Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

2. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
 Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-CDK5 Polyclonal Antibody, Unconjugated (TMAB-04168) 1:300, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining

## Verified Activity:

3. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
 Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min;  
 Incubation: Anti-CDK5 Polyclonal Antibody, Unconjugated (TMAB-04168) 1: 200, overnight at 4° C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1: 200 dilution for 40 minutes at 37°C.

4. Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
 Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-CDK5 Polyclonal Antibody, Unconjugated (TMAB-04168) 1:500, overnight at 4° C, followed by conjugation to the secondary antibody and DAB staining

## 5. Sample:

Lane 1: Large intestine (Mouse) Lysate at 40 µg

Lane 2: Large intestine (Rat) Lysate at 40 µg

Primary: Anti-CDK5 (TMAB-04168) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 29 kD

Observed band size: 27 kD

6. Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by

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boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CDK5) Polyclonal Antibody, Unconjugated (TMAB-04168) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CDK5

Antigen Species: Human

Gene ID: 1020

Uniprot ID: Q00535

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### Research Background

This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015]

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