

## Anti-CDK2 Polyclonal Antibody 2

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Pig, Cow, Horse, Rabbit, Sheep)
Molecular Weight:	Theoretical: 33 kDa. Actual: 30 kDa.
Purification:	Protein A purified

### Applications

1. Blank control (Black line): U87Mg (Black).  
Primary Antibody (green line): Rabbit Anti-CDK2 antibody (TMAB-00404)  
Dilution: 3  $\mu\text{g}/10^6$  cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647  
Dilution: 1  $\mu\text{g}/\text{test}$ .

#### 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.

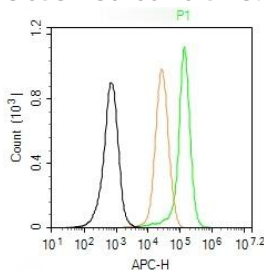
#### Verified Activity:

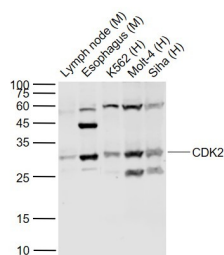
#### 2. Sample:

Lane 1: Lymphnode (Mouse) Lysate at 40  $\mu\text{g}$   
Lane 2: Esophagus (Mouse) Lysate at 40  $\mu\text{g}$   
Lane 3: K562 (Human) Cell Lysate at 30  $\mu\text{g}$   
Lane 4: Molt-4 (Human) Cell Lysate at 30  $\mu\text{g}$   
Lane 5: Siha (Human) Cell Lysate at 30  $\mu\text{g}$

#### Primary:

Anti-CDK2 (TMAB-00404) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 30 kDa  
Observed band size: 30 kDa





Application: FCM,WB

Recommended WB: 1:500-2000; FCM: 3µg/Test

### Properties

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

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CDK2

Antigen Species: Human

Gene ID: 1017

Uniprot ID: P24941

Synonyms: CDKN2; cyclin-dependent kinase 2; p33(CDK2)

Biology Area: Cdks, Cdks, Cdks

### Research Background

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. [provided by RefSeq, Jul 2008].

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