

## Anti-CDK4 Antibody

Catalog Number: M00159-2

### About CDK4

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

### Overview

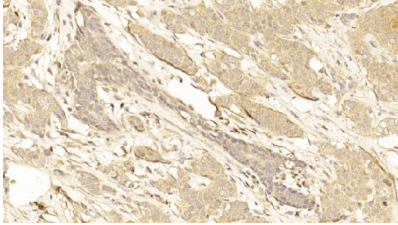
Product Name	Anti-CDK4 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-CDK4 Antibody (Catalog # M00159-2). Tested in WB, IHC-P application(s). This antibody reacts with Human, Mouse.
Application	IHC-P, WB
Clonality	Monoclonal 1529CT850.162.73
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	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.
Host	Mouse
Uniprot ID	P11802

### Technical Details

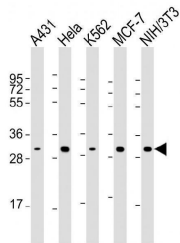
Immunogen	This CDK4 antibody is generated from a mouse immunized with a recombinant protein.
Predicted Reactive Species	Human
Isotype	IgG2a,kappa
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Suggested Dilutions	IHC: 1:300 WB: 1:2000 IHC-P: 1:25



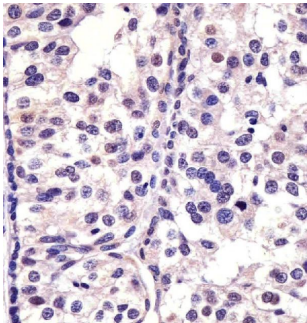
## Anti-CDK4 Antibody (M00159-2) Images



Immunohistochemical analysis of paraffin-embedded Human Breast cancer section using Pink1. M00159-2 was diluted at 1:300 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



All lanes : Anti-CDK4 Antibody at 1:2000 dilution  
Lane 1: A431 whole cell lysate  
Lane 2: HeLa whole cell lysate  
Lane 3: K562 whole cell lysate  
Lane 4: MCF-7 whole cell lysate  
Lane 5: NIH/3T3 whole cell lysate  
Lysates/proteins at 20 ug per lane.  
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 34 kDa  
Blocking/Dilution buffer: 5% NFDN/TBST.



M00159-2 staining CDK4 in human breast carcinoma sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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### Anti-CDK4 Antibody

For Research Use Only. Not for use in diagnostic procedures.