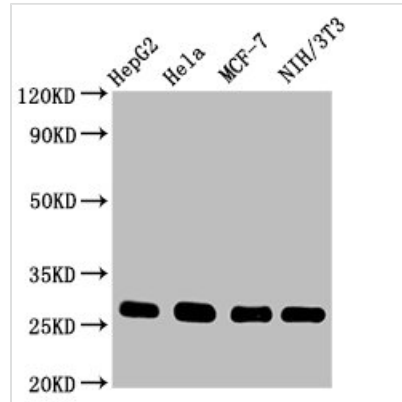




# CDKN1B Antibody

|                            |   |
|----------------------------|---|
| <b>Product Code</b>        | CSB-RA005087A0HU  |
| <b>Abbreviation</b>        | Cyclin-dependent kinase inhibitor 1B  |
| <b>Storage</b>             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.   |
| <b>Uniprot No.</b>         | P46527  |
| <b>Immunogen</b>           | A synthesized peptide derived from human CDKN1B   |
| <b>Species Reactivity</b>  | Human, Mouse  |
| <b>Tested Applications</b> | ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200  |
| <b>Relevance</b>           | Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichiometry. |
| <b>Form</b>                | Liquid  |
| <b>Conjugate</b>           | Non-conjugated  |
| <b>Storage Buffer</b>      | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.  |
| <b>Purification Method</b> | Affinity-chromatography   |
| <b>Isotype</b>             | Rabbit IgG  |
| <b>Clonality</b>           | Monoclonal  |
| <b>Alias</b>               | Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, CDKN1B, KIP1   |
| <b>Immunogen Species</b>   | Homo sapiens (Human)  |
| <b>Research Area</b>       | Cell Biology  |
| <b>Gene Names</b>          | CDKN1B  |
| <b>Accession NO.</b>       | 1G2   |
| <b>Image</b>               |   |


**Western Blot**

Positive WB detected in: HepG2 whole cell lysate, HeLa whole cell lysate, MCF-7 whole cell lysate, NIH/3T3 whole cell lysate

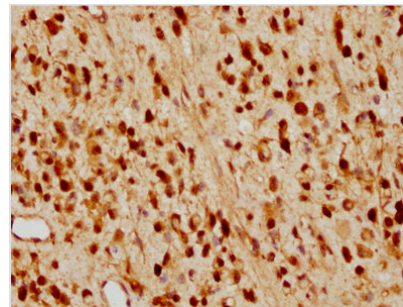
All lanes: CDKN1B antibody at 0.9µg/ml

Secondary

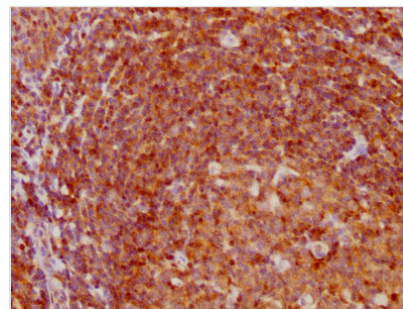
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 23 KDa

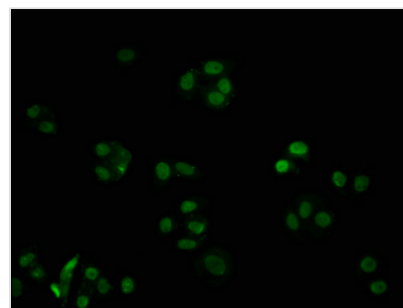
Observed band size: 27 KDa



IHC image of CSB-RA005087A0HU diluted at 1:97.5 and staining in paraffin-embedded human glioma cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA005087A0HU diluted at 1:97.5 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of HepG2 cells with CSB-RA005087A0HU at 1:32.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

**Description**

This is a CDKN1B recombinant monoclonal antibody produced in vitro expression system. The clones constructed by the human CDKN1B DNA gene and vector were transfected into the cell line for production. This CDKN1B antibody is purified using affinity-chromatography. It can recognize the CDKN1B protein of human- and mouse-origin. It is recommended for applications, including ELISA, WB, IHC, and IF.



CDKN1B, also called p27kip1, is a cyclin-dependent kinase inhibitor involved in the G1–S transition. Cytoplasmic p27kip1 participates in cellular processes including cytoskeleton dynamics, cell migration, and metastasis and plays a role in tumor development and disease progression.