
Product Name: KD-Validated Cyclin Dependent Kinase Inhibitor 1B Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00210

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 22.1kDa

Antigen Information

Gene Name	CDKN1B CDKN1B; Cyclin Dependent Kinase Inhibitor 1B; KIP1; P27KIP1; Cyclin-Dependent Kinase
Alternative Names	Inhibitor 1B (P27, Kip1); Cyclin-Dependent Kinase Inhibitor 1B; Cyclin-Dependent Kinase Inhibitor P27; P27Kip1; CDKN4; MEN1B; MEN4; P27
Gene ID	1027.0
SwissProt ID	P46527
Immunogen	A synthesized peptide derived from human p27 KIP 1

Background

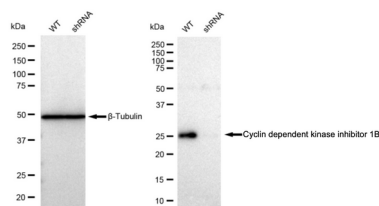
This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The

encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. Mutations in this gene are associated with multiple endocrine neoplasia type IV (MEN4). [provided by RefSeq, Apr 2014]

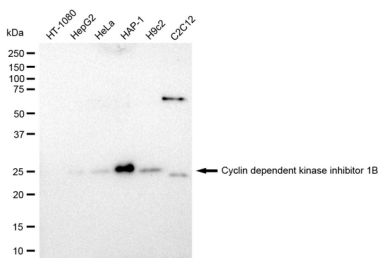
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer

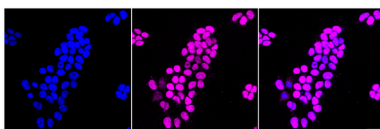
Image Data



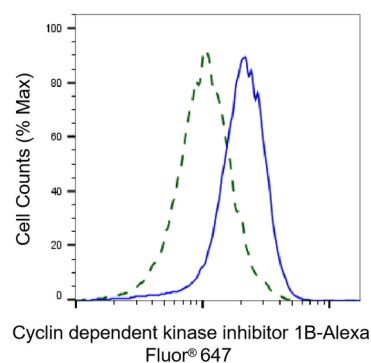
Western blotting analysis using cyclin dependent kinase inhibitor 1B antibody (KVA00210). Cyclin dependent kinase inhibitor 1B expression in wild type (WT) and cyclin dependent kinase inhibitor 1B (CDKN1B) shRNA knockdown (KD) HSHC cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with cyclin dependent kinase inhibitor 1B antibody (KVA00210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



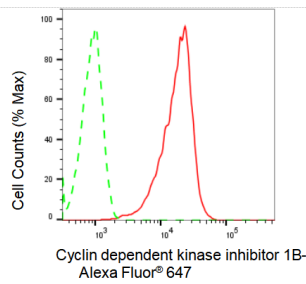
Western blotting analysis using Cyclin dependent kinase inhibitor 1B antibody (KVA00210). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Cyclin dependent kinase inhibitor 1B antibody (KVA00210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Cyclin dependent kinase inhibitor 1B antibody (KVA00210, 1:1,000). Nuclei were stained blue with DAPI; Cyclin dependent kinase inhibitor 1B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of Cyclin dependent kinase inhibitor 1B knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HSHC cells were stained with Cyclin dependent kinase inhibitor 1B antibody (KVA00210, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Cyclin dependent kinase inhibitor 1B expression in HAP-1 cells using Cyclin dependent kinase inhibitor 1B antibody (KVA00210, 1:2,000). Green, isotype control; red, Cyclin dependent kinase inhibitor 1B.