

Datasheet for ABIN672621
anti-CDKN1B antibody (AA 150-198)

7 Images

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Overview

Quantity:	100 µL
Target:	CDKN1B
Binding Specificity:	AA 150-198
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN1B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CDKN1B
Isotype:	IgG
Cross-Reactivity:	Chicken, Human, Mouse, Rat
Predicted Reactivity:	Dog, Sheep, Pig
Purification:	Purified by Protein A.

Target Details

Target:	CDKN1B
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Target Details

Alternative Name:	CDKN1B (CDKN1B Products)
Background:	<p>Synonyms: KIP1, MEN4, CDKN4, MEN1B, P27KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, CDKN1B</p> <p>Background: Important regulator of cell cycle progression. 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.</p>
Gene ID:	1027
UniProt:	P46527
Pathways:	Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Positive Regulation of Peptide Hormone Secretion , Negative Regulation of Hormone Secretion , Sensory Perception of Sound , Mitotic G1-G1/S Phases , DNA Replication , Positive Regulation of Endopeptidase Activity , Synthesis of DNA , Autophagy

Application Details

Application Notes:	WB 1:100-1000 FCM 1:20-100 IHC-P 1:100-500 IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Abdalla, Li, Nie: "A Novel DNA Methyltransferase Dnmt3a3 Splice Variant Represses Preadipocyte Proliferation and Differentiation." in: **Frontiers in genetics**, Vol. 11, pp. 115, (2020) ([PubMed](#)).

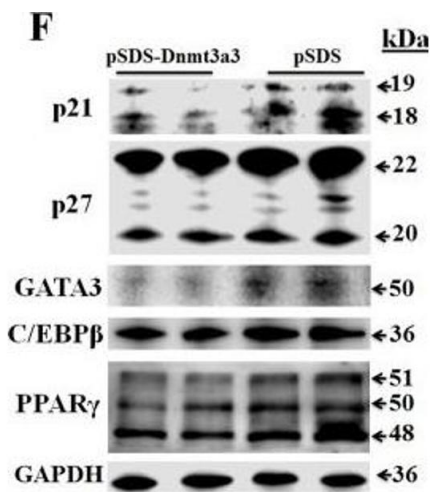
Guo, Xu, Ren, Zhang, Zhang, Duan, Zhou, Sun: "Endosulfan induces apoptosis by activating the negative regulation pathway of cell cycle and death receptor pathway in spermatogenic cells." in: **Toxicology research**, Vol. 6, Issue 2, pp. 223-231, (2017) ([PubMed](#)).

Akizuki, Shimobaba, Matsunaga, Endo, Ikari: "Claudin-5, -7, and -18 suppress proliferation mediated by inhibition of phosphorylation of Akt in human lung squamous cell carcinoma." in: **Biochimica et biophysica acta**, Vol. 1864, Issue 2, pp. 293-302, (2016) ([PubMed](#)).

Gao, Tang, Ding, Wang, Qi, Wu, Guo: "Protein-Binding Function of RNA-Dependent Protein Kinase Promotes Proliferation through TRAF2/RIP1/NF- κ B/c-Myc Pathway in Pancreatic β cells." in: **Molecular medicine (Cambridge, Mass.)**, Vol. 21, Issue 1, pp. 154-66, (2015) ([PubMed](#)).

Sun, Yang, Luo, Wang, Chen, Zhang, Wang, Li: "Thyroid hormone inhibits the proliferation of piglet Sertoli cell via PI3K signaling pathway." in: **Theriogenology**, (2014) ([PubMed](#)).

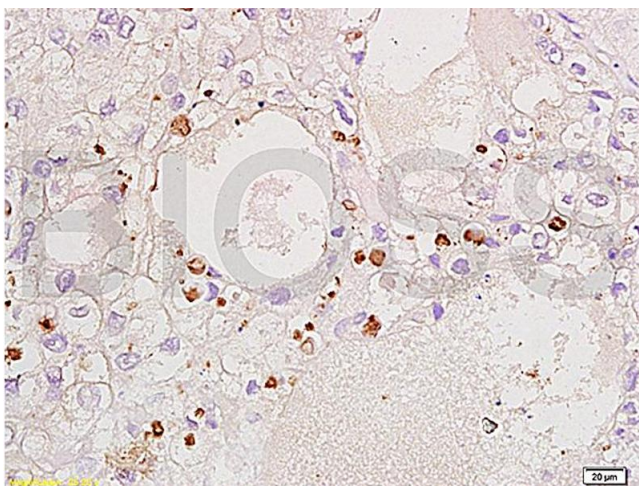
Images



Western Blotting

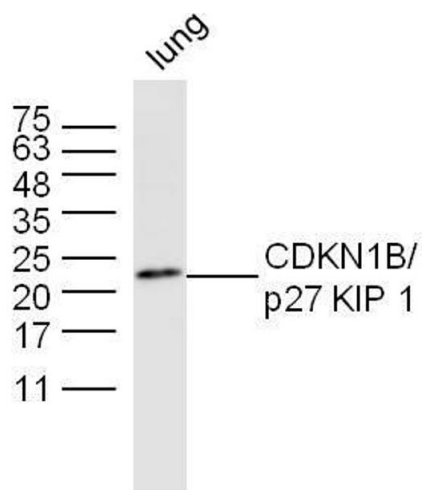
Image 1. Dnmt3a3 overexpression decreases fat accumulation in differentiating preadipocytes. Cultured preadipocytes were differentiated as described under "MATERIALS AND METHODS" (A) Oil-red-O stain was visualized following the transfection of Dnmt3a3 overexpression (left panel) or negative control (right panel) into the cells. Images were captured at 10x magnification. Scale bar: 40 μ m. (B) Quantification of Oil-Red-O staining after Dnmt3a3 overexpression or negative control. The

absorbance was measured at OD510nm using a Synergy™ Neo2 Multi-Mode Reader (Bio-Tek). Values are expressed as mean \pm s.e.m. (**P < 0.01). (C) Cell population (%) was determined following the transfection of Dnmt3a3 overexpression or negative control. Values are expressed as mean \pm s.e.m. (*P < 0.05). (D) Cell cycle analysis after Dnmt3a3 overexpression or negative control. A representative image of cell cycle distribution (G1, S, and G2/M) is indicated. (E) The mRNA levels of chicken Dnmt3a transcripts (Dnmt3a3, Dnmt3a, and Dnmt3a1), several cell cycle control genes (p21, p27, and Cyclin D1), preadipocyte differentiation markers (GATA2, GATA3, C/EBP α , C/EBP β , PPAR γ , AP2, and Pref-1) were detected using qRT-PCR after Dnmt3a3 overexpression or negative control. Values are expressed as mean \pm s.e.m. (*P < 0.05, **P < 0.01, ***P < 0.001, and ****P < 0.0001). (F) Protein expression of cell cycle control markers (p21 and p27) and early preadipocyte differentiation markers (GATA3, C/EBP β , and PPAR γ) after Dnmt3a3 overexpression or negative control in differentiating preadipocytes. GAPDH was used as the loading control. - figure provided by CiteAb. Source: PMID32158470



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human ovary carcinoma labeled Anti-CDKN1B/P27kip1 Polyclonal Antibody, Unconjugated (ABIN672621) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. Mouse lung lysates probed with CDKN1B Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 60 minutes at 37°C.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN672621.