

Datasheet for ABIN1981278
anti-CDKN2A antibody (C-Term)



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Overview

Quantity:	400 µL
Target:	CDKN2A
Binding Specificity:	AA 104-131, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDKN2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This p16INK4a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-131 amino acids from the C-terminal region of human p16INK4a.
Clone:	RB19093
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CDKN2A
Alternative Name:	p16INK4a (CDKN2A Products)

Target Details

Background:	This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene, this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, MDM1, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.
Molecular Weight:	16533
Gene ID:	1029
NCBI Accession:	NP_000068 , NP_001182061 , NP_478104
UniProt:	P42771
Pathways:	Mitotic G1-G1/S Phases , Stem Cell Maintenance , Positive Regulation of Endopeptidase Activity , Autophagy , Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	IF: 1:10~50. WB: 1:2000. WB: 1:2000. IHC-P-Leica: 1:500. FC: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small

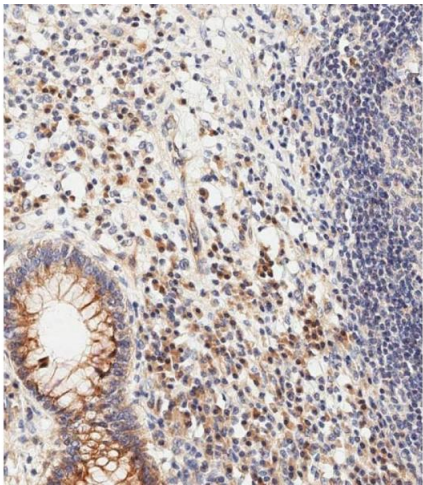
aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

Publications

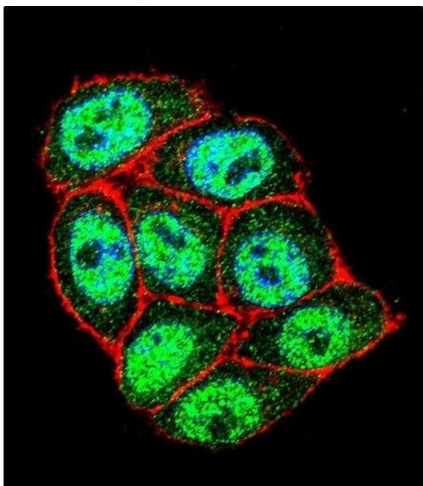
Product cited in: Han, Li, Zhang, Qin, Yang, Wang, Yuan, Xia: "Brain lipid-binding protein promotes proliferation and modulates cell cycle in C6 rat glioma cells." in: **International journal of oncology**, Vol. 51, Issue 5, pp. 1439-1448, (2018) ([PubMed](#)).

Images



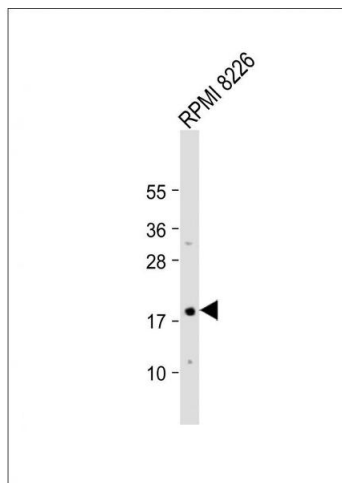
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded human epityphlon tissue using (ABIN1981278 and ABIN2845115) performed on the Leica® BOND RXm. Samples were incubated with primary Antibody (1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of p16INK4a Antibody (C-term) (ABIN1981278 and ABIN2845115) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor555 phalloidin (red). DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. Anti-CDKN2A Antibody (Center) at 1:2000 dilution + RI 8226 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN1981278.