

Rabbit anti-Mouse Cdkn2a Polyclonal Antibody | anti-Cdkn2a antibody

Mouse Cdkn2a Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285404	Rabbit	Mouse	ELISA, Western Blot

PRODUCT SYNONYMS

Cdkn2a; Polyclonal Antibody; Mouse Cdkn2a Antibody (Center); Cyclin-dependent kinase inhibitor 2A; isoform 3; p19ARF; Cdkn2a {ECO:0000312|EMBL:AAB357701; ECO:0000312|MGI:MGI:104738}; anti-Cdkn2a antibody

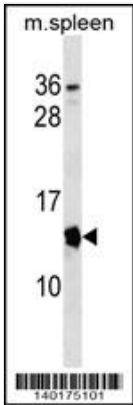
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Mouse Cdkn2a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-65 amino acids from the Central region of mouse Cdkn2a.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	39-65
Sequence Length	168
Applicable Applications for anti-Cdkn2a antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Clone Names	RB40175
Antigen Source	MOUSE
Function	Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2- induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Interacts with COMMD1 and promotes its 'Lys63'-linked polyubiquitination (By similarity). Interacts with UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development. Isoform smARF may be involved in regulation of autophagy and caspase-independent cell death; the short-lived mitochondrial isoform is stabilized by C1QBP.
Cellular Location	Nucleus, nucleolus {ECO:0000250 UniProtKB:Q8N726, ECO:0000269 PubMed:10359817, ECO:0000269 PubMed:15567177, ECO:0000269 PubMed:15601844, ECO:0000269 PubMed:8521522}. Nucleus, nucleoplasm

Preparation and Storage

Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
Mouse Cdkn2a Antibody (Center) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the Cdkn2a antibody detected the Cdkn2a protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-Cdkn2a antibody	Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53-independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional activator activity but has no effect on MYC transcriptional repression. Binds to TOP1/TOPOI and stimulates its activity. This complex binds to rRNA gene promoters and may play a role in rRNA transcription and/or maturation. Interacts with NPM1/B23 and promotes its polyubiquitination and degradation, thus inhibiting rRNA processing. Interacts with UBE2I/UBC9 and enhances sumoylation of a number of its binding partners including MDM2 and E2F1. Binds to HUWE1 and represses its ubiquitin ligase activity. May play a role in controlling cell proliferation and apoptosis during mammary gland development.
References	Nogueira, C., et al. Oncogene 29(47):6222-6232(2010) Fernandez-Diaz, L.C., et al. Development 137(20):3393-3403(2010) Bennecke, M., et al. Cancer Cell 18(2):135-146(2010) Negishi, M., et al. PLoS ONE 5 (8), E12373 (2010) : Ulanet, D.B., et al. PLoS ONE 5 (8), E12454 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753390
NCBI GeneID	12578
NCBI Accession #	NP_034007.1
NCBI GenBank Nucleotide #	NM_009877.2
UniProt Accession #	Q64364; Q4U255; Q9QXC7; Q9R051; P51480
Molecular Weight	19238
NCBI Official Full Name	cyclin-dependent kinase inhibitor 2A isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2A
NCBI Official Symbol	Cdkn2a
NCBI Official Synonym Symbols	Arf; p16; MTS1; Pctr1; p19ARF; p16INK4a; p19<ARF>; ARF-INK4a; INK4a-ARF; Ink4a/Arf; p16(INK4a)

NCBI Protein Information	cyclin-dependent kinase inhibitor 2A
UniProt Protein Name	Tumor suppressor ARF
UniProt Gene Name	Cdkn2a
UniProt Synonym Gene Names	ARF
UniProt Entry Name	ARF_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdkn2a-antibody-western-blot-elisa/285404>