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Datasheet for ABIN3030639 anti-CDKN2A antibody (AA 39-65)

2 Images



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Overview

| Quantity: | 0.4 mL |
|----------------------|---------------------------------------|
| Target: | CDKN2A |
| Binding Specificity: | AA 39-65 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CDKN2A antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

| Immunogen: | A portion of amino acids 39-65 from the mouse protein was used as the immunogen for this Cdkn2a antibody. |
|---------------|--|
| lsotype: | Ig Fraction |
| Purification: | Antigen affinity purified |

Target Details

| Target: | CDKN2A |
|-------------------|---|
| Alternative Name: | Cdkn2a (CDKN2A Products) |
| Background: | 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 |

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| | 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. |
| UniProt: | Q64364 |
| Pathways: | Mitotic G1-G1/S Phases, Stem Cell Maintenance, Positive Regulation of Endopeptidase Activity, |
| | Autophagy, Positive Regulation of Response to DNA Damage Stimulus |

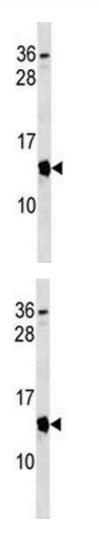
Application Details

| Application Notes: | Titration of the Cdkn2a antibody may be required due to differences in protocols and |
|--------------------|--|
| | secondary/substrate sensitivity.\. Western blot: 1:1000 |
| Restrictions: | For Research Use only |

Handling

| Format: | Liquid |
|--------------------|--|
| Buffer: | In 1X PBS, pH 7.4, with 0.09 % 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: | -20 °C |
| Storage Comment: | Aliquot the Cdkn2a antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles. |

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Western Blotting

Image 1. Cdkn2a antibody western blot analysis in mouse spleen tissue lysate.

Western Blotting

Image 2. Cdkn2a antibody western blot analysis in mouse spleen tissue lysate.

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