10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-CDKN2A(S8) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3792a

Specification

Phospho-CDKN2A(S8) Antibody Blocking peptide - Product Information

Primary Accession P42771

Phospho-CDKN2A(S8) Antibody Blocking peptide - Additional Information

Gene ID 1029

Other Names
Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3, Cyclin-dependent kinase 4 inhibitor A, CDK4I, Multiple tumor suppressor 1, MTS-1, p16-INK4a, p16-INK4, p16INK4A, CDKN2A, CDKN2, MTS1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-CDKN2A(S8) Antibody Blocking peptide - Protein Information

Name CDKN2A (HGNC:1787)

Synonyms CDKN2, MTS1

Function
Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein.

Cellular Location
Cytoplasm. Nucleus

Tissue Location
Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific

Phospho-CDKN2A(S8) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Phospho-CDKN2A(S8) Antibody Blocking peptide - Images

Phospho-CDKN2A(S8) Antibody Blocking peptide - Background

This gene generates several transcript variants whichdiffer in their first exons. At least three alternatively splicedvariants encoding distinct proteins have been reported, two ofwhich encode structurally related isoforms known to function asinhibitors of CDK4 kinase. The remaining transcript includes analternate first exon located 20 Kb upstream of the remainder of thegene; this transcript contains an alternate open reading frame(ARF) that specifies a protein which is structurally unrelated tothe products of the other variants. This ARF product functions as astabilizer of the tumor suppressor protein p53 as it can interactwith, and sequester, MDM1, a protein responsible for thedegradation of p53. In spite of the structural and functionaldifferences, the CDK inhibitor isoforms and the ARF product encodedby this gene, through the regulatory roles of CDK4 and p53 in cellcycle G1 progression, share a common functionality in cell cycle G1control. This gene is frequently mutated or deleted in a widevariety of tumors, and is known to be an important tumor suppressorgene.

Phospho-CDKN2A(S8) Antibody Blocking peptide - References

Kovacs, E., et al. Proc. Natl. Acad. Sci. U.S.A. 107(12):5429-5434(2010)Irvine, M., et al. Cell Cycle 9(4):829-839(2010)Zhang, H.J., et al. J. Cell. Biochem. 106(3):464-472(2009)Ivanchuk, S.M., et al. Cell Cycle 7(12):1836-1850(2008)Bandyopadhyay, K., et al. Biochemistry 46(49):14325-14334(2007)