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

Phospho-p16-INK4A(S7) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3185a

Specification

Phospho-p16-INK4A(S7) Antibody Blocking peptide - Product Information

Primary Accession P42771

Phospho-p16-INK4A(S7) 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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3185a was selected from the region of human Phospho-p16-INK4A-S7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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-p16-INK4A(S7) 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

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Phospho-p16-INK4A(S7) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-p16-INK4A(S7) Antibody Blocking peptide - Images

Phospho-p16-INK4A(S7) Antibody Blocking peptide - Background

p16-INK4A 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. This protein 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. The gene for this protein is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene.

Phospho-p16-INK4A(S7) Antibody Blocking peptide - References

Ausserlechner, M.J., et al., Leukemia 19(6):1051-1057 (2005).Kawamata, N., et al., Eur. J. Haematol. 74(5):424-429 (2005).Wang, J.L., et al., Mod. Pathol. 18(5):629-637 (2005).Kuroda, H., et al., Cancer Genet. Cytogenet. 158(2):172-179 (2005).Fu, G.H., et al., FEBS Lett. 579(10):2105-2110 (2005).