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Phospho-p16-INK4A(S152) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3184a

Specification

Phospho-p16-INK4A(S152) Antibody - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P42771
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Phospho-p16-INK4A(S152) Antibody - 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
This p16-INK4A Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S152 of human p16-INK4A.

Dilution
WB~~1:1000
IHC-P~~1:50~100

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.

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

Precautions
Phospho-p16-INK4A(S152) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-p16-INK4A(S152) Antibody - 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

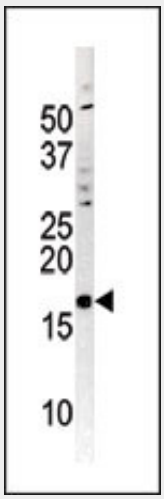
Tissue Location
Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific

Phospho-p16-INK4A(S152) Antibody - Protocols

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

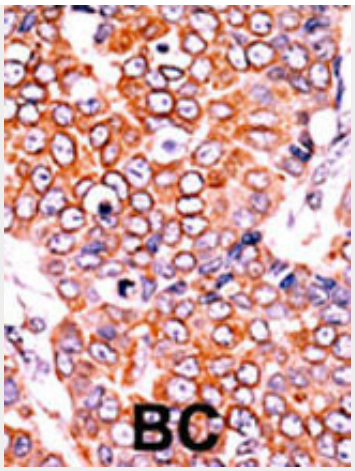
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-p16-INK4A(S152) Antibody - Images



The anti-Phospho-p16-INK4A-S152 Pab (Cat. #AP3184a) is used in Western blot to detect Phospho-p16-INK4A-S152 in A2058 tissue lysate

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Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Phospho-p16-INK4A(S152) Antibody - 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(S152) Antibody - 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).

Phospho-p16-INK4A(S152) Antibody - Citations

- The atr protein kinase controls UV-dependent upregulation of p16INK4A through inhibition of Skp2-related polyubiquitination/degradation.
- Overexpression of the transcription factor Yin-Yang-1 suppresses differentiation of HaCaT cells in three-dimensional cell culture.