

**Phospho-p16-INK4A(S140) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3183a**

**Specification**

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**Phospho-p16-INK4A(S140) Antibody - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P42771</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

**Phospho-p16-INK4A(S140) 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 S140 of human p16-INK4A.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**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(S140) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Phospho-p16-INK4A(S140) 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**

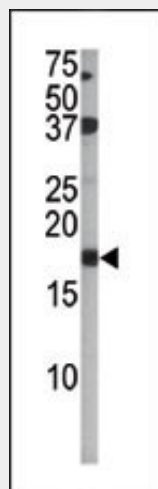
Widely expressed but not detected in brain or skeletal muscle. Isoform 3 is pancreas-specific

**Phospho-p16-INK4A(S140) Antibody - Protocols**

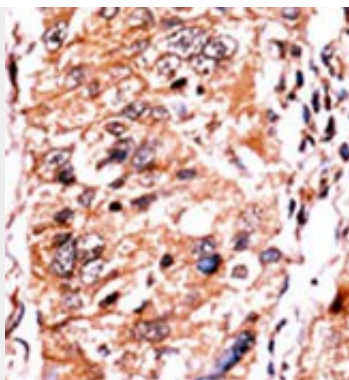
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Phospho-p16-INK4A(S140) Antibody - Images**



The anti-Phospho-p16-INK4A-S140 Pab (Cat. #AP3183a) is used in Western blot to detect Phospho-p16-INK4A-S140 in A2058 tissue lysate



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB 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(S140) 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(S140) 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(S140) Antibody - Citations**

- [The atr protein kinase controls UV-dependent upregulation of p16INK4A through inhibition of Skp2-related polyubiquitination/degradation.](#)