

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12)
Mouse Monoclonal Antibody
Catalog # ALS16384

Specification

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - Product Information

Application	IHC
Primary Accession	P42771
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	17kDa KDa

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - 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

Human CDKN2A / p16 INK4A

Format

Presentation PBS, 0.03% Sodium Azide

Reconstitution & Storage

Short term +4°C; Long term -20°C

Precautions

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) is for research use only and not for use in diagnostic or therapeutic procedures.

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - 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

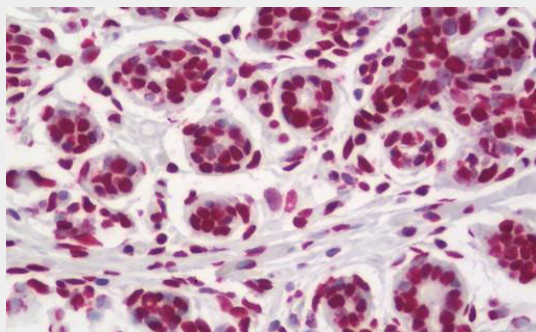
Volume

Array

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - 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](#)

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - Images

Human Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - Background

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.

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - References

Serrano M., et al. Nature 366:704-707(1993).
Robertson K.D., et al. Oncogene 18:3810-3820(1999).
Kitagawa Y., et al. J. Biol. Chem. 277:46289-46297(2002).
Lin Y.C., et al. Oncogene 26:7017-7027(2007).
Humphray S.J., et al. Nature 429:369-374(2004).

CDKN2A / p16INK4a Antibody (clone 5A8A4,3G8D12) - Citations

- [Gut bacteria identified in colorectal cancer patients promote tumourigenesis via butyrate secretion](#)