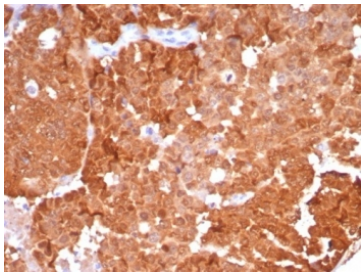
P16INK4a Antibody / CDKN2A [clone CDKN2A/8223R] (V5279)

Catalog No.	Formulation	Size
V5279-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5279-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5279SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

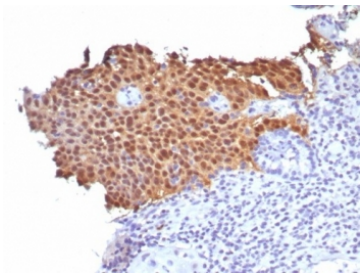
Recombinant RABBIT MONOCLONAL

Bulk quote request

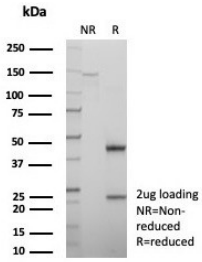
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDKN2A/8223R
Purity	Protein A/G affinity
UniProt	P42771
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This P16INK4a antibody is available for research use only.



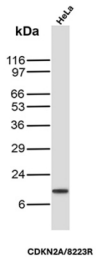
P16INK4a Antibody Ovarian Carcinoma IHC. Immunohistochemistry staining of FFPE human ovarian carcinoma tissue with P16INK4a antibody (clone CDKN2A/8223R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



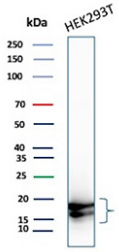
P16INK4a Antibody Cervical Carcinoma IHC. Immunohistochemistry staining of FFPE human cervical carcinoma tissue with P16INK4a antibody (clone CDKN2A/8223R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free p16 antibody (clone CDKN2A/8223R) as confirmation of integrity and purity.



P16INK4a Antibody HeLa WB. Western blot analysis of Cyclin-dependent kinase inhibitor 2A (p16INK4a) expression in HeLa cell lysate using P16INK4a antibody clone CDKN2A/8223R. Lane 1: HeLa cell lysate. A band is detected at approximately 15â€“17 kDa, consistent with the predicted molecular weight of p16INK4a, a cyclin-dependent kinase inhibitor that regulates G1 cell cycle progression through inhibition of CDK4 and CDK6.



P16INK4a Antibody HEK293T WB. Western blot analysis of Cyclin-dependent kinase inhibitor 2A (p16INK4a) expression in HEK293T cell lysate using P16INK4a antibody clone CDKN2A/8223R. Lane 1: HEK293T cell lysate. Bands are detected at approximately 15â€“17 kDa, consistent with the predicted molecular weight of p16INK4a, a cyclin-dependent kinase inhibitor that regulates G1 cell cycle progression through inhibition of CDK4 and CDK6. The presence of multiple closely migrating bands may reflect isoforms, post-translational modification, or minor proteolytic processing.

Description

p16INK4a is a tumor suppressor protein. It is a specific inhibitor of cdk4/cdk6, and a tumor suppressor involved in the pathogenesis of a variety of malignancies. Recent analyses of the p16INK4a gene revealed homozygous deletions, nonsense, missense, or frameshift mutations in several human cancers. Although the frequency of p16INK4a abnormalities is higher in tumor derived cell lines than in unselected primary tumors, significant subsets of clinical cases with aberrant p16INK4a gene have been reported among melanomas, gliomas, esophageal, pancreatic, lung, and urinary bladder carcinomas, and some types of leukemia. Expression of p16INK4a (p16 positive) is highly correlated with human papilloma virus (HPV) infection in head and neck squamous cell carcinomas (HNSCC). p16 status is an important prognostic indicator in HNSCC and the p16 positive/HPV16 negative group is likely a distinct subgroup lacking any HPV genotype.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the P16INK4a antibody should be determined by the researcher.

Immunogen

Purified recombinant prokaryotic full-length human protein was used as the immunogen for the P16INK4a antibody.

Storage

Aliquot the P16INK4a antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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