

Product datasheet for **CF503580**

CDKN3 Mouse Monoclonal Antibody [Clone ID: OTI2E11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2E11
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CDKN3(NP_005183) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.6 kDa
Gene Name:	cyclin dependent kinase inhibitor 3
Database Link:	NP_005183 Entrez Gene 72391 Mouse Entrez Gene 1033 Human Q16667



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Background:

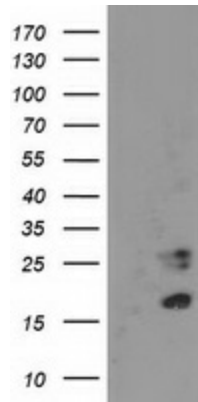
The protein encoded by this gene belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. This gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

Synonyms:

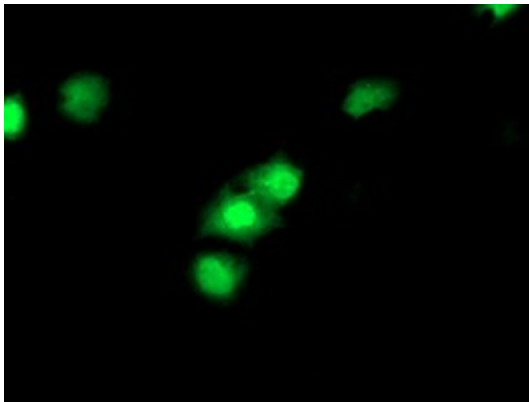
CDI1; CIP2; KAP; KAP1

Protein Families:

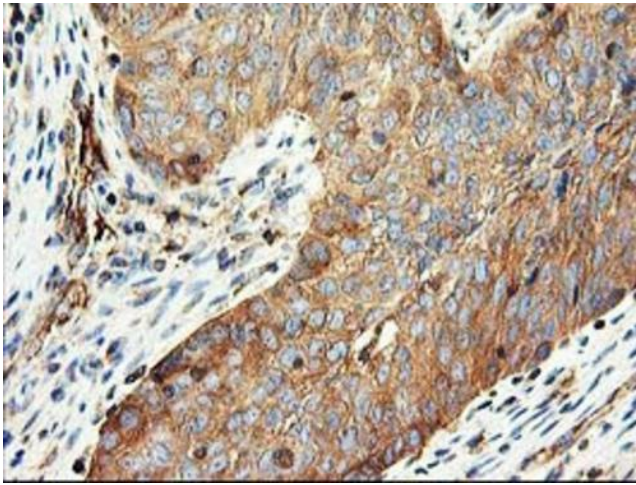
Druggable Genome, Phosphatase

Product images:


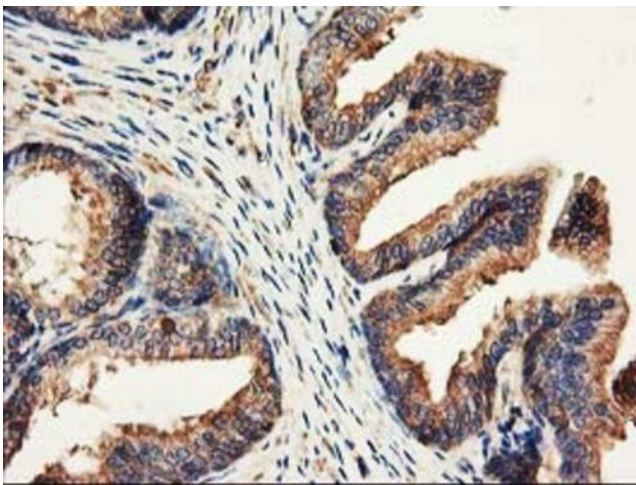
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CDKN3 (Cat# [RC213080], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CDKN3 (Cat# [TA503580]). Positive lysates [LY417450] (100ug) and [LC417450] (20ug) can be purchased separately from OriGene.



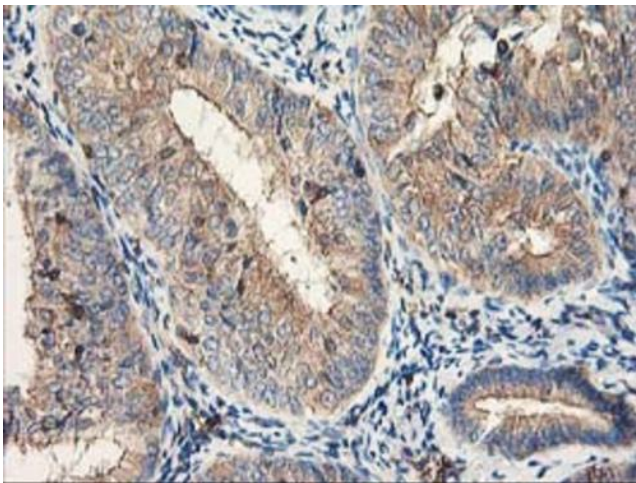
Anti-CDKN3 mouse monoclonal antibody ([TA503580]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CDKN3 ([RC213080]).



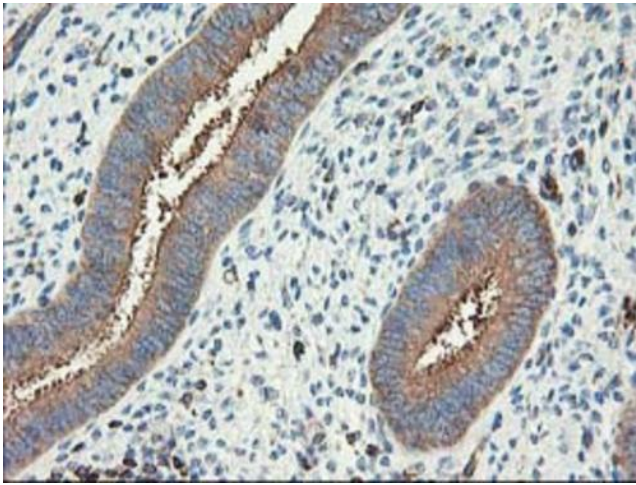
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-CDKN3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



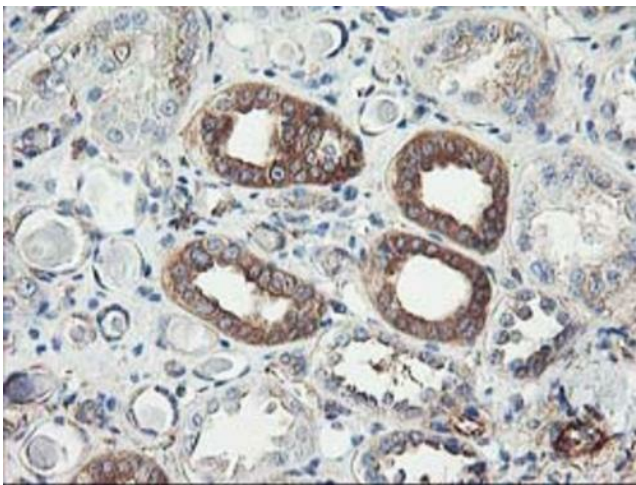
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-CDKN3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



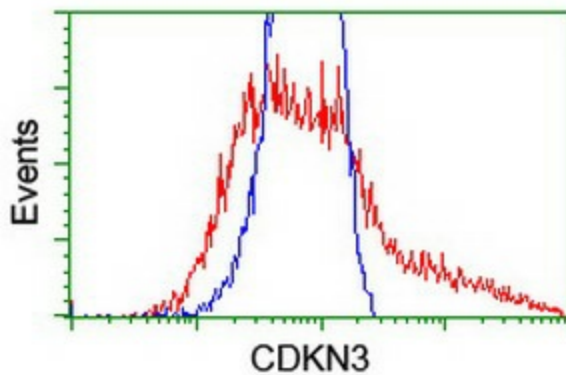
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-CDKN3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



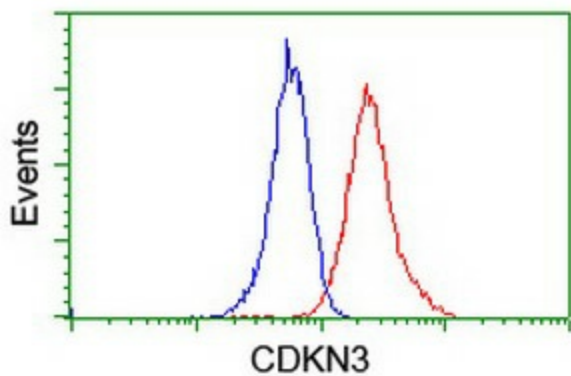
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-CDKN3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



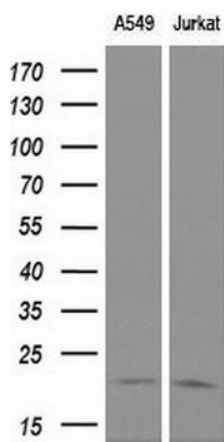
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CDKN3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC213080] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-CDKN3 antibody ([TA503580]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-CDKN3 antibody ([TA503580]), (Red), compared to a nonspecific negative control antibody, (Blue).



Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-CDKN3 monoclonal antibody at 1:200 dilution.