

Anti-p16INK4a/CDKN2 Antibody (Monoclonal, DCS-50)

Catalog # ABO10459

Product Information

Application	WB, IHC-F, ICC
Primary Accession	Q9R0Z3
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for p16INK4a/CDKN2, cyclin-dependent kinase inhibitor 2A (CDKN2A) detection. Tested with WB, IHC-F, ICC in Human. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	25163
Other Names	Cyclin-dependent kinase inhibitor 2A {ECO:0000312 RGD:2323}, Cyclin-dependent kinase 4 inhibitor A, CDK4I, p16-INK4a, p16, p16-INK4, Cdkn2a {ECO:0000312 EMBL:AAL76338.1, ECO:0000312 RGD:2323}
Calculated MW	17366
Application Details	Immunocytochemistry , 1 µg/ml, Human, - Immunohistochemistry(Frozen Section), 1-2 µg/ml, Human, - Western blot, 0.5-1 µg/ml, Human
Subcellular Localization	Cytoplasm . Nucleus .
Tissue Specificity	Expressed in spleen, liver and lung. Not detected in kidney, colon, stomach or brain. .
Source	Eukaryota
Protein Name	Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	DCS-50
Immunogen	Recombinant human p16 protein.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the CDKN2 cyclin-dependent kinase inhibitor family.

Protein Information

Name	Cdkn2a {ECO:0000312 EMBL:AAL76338.1, ECO:0000312 RGD:2323}
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 (By similarity).
Cellular Location	Cytoplasm. Nucleus.
Tissue Location	Expressed in spleen, liver and lung. Not detected in kidney, colon, stomach or brain.

Background

p16(INK4A), also known as cyclin-dependent kinase inhibitor 2A(CDKN2A), or multiple tumor suppressor 1(MTS1). The p16 gene(CDKN2A) was mapped to 9p21. The p16 gene encodes a negative regulator of the cell cycle. CDKN2 plays an important role during tumorigenesis or tumor progression in a significant proportion of pancreatic adenocarcinomas. Germ-line mutations in the CDKN2A tumor-suppressor gene have been linked to the development of melanoma in some families with inherited melanoma.

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