

Product datasheet

anti-p16 Protein mouse monoclonal, DCS-50, supernatant

Short overview

Cat. No.	65174
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	DCS-50
Immunogen	Recombinant human p16 protein
Formulation	Contains 0.09% sodium azide
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Human

Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

p16 (CDKN2A, p16Ink4A), is key regulator of the cell cycle and involved in cell cycle control and cellular senescence. It is a specific inhibitor for Cdk4 and Cdk6 and binds to the phosphorylated Cdk-cyclin complex. A disruption of this pathway is commonly observed in cancer. p16 is lost in the majority of tumor cell lines and in most primary tumors. It is not expressed in melanoma. In carcinoma driven by an HPV (human papilloma virus) infection, p16 is often overexpressed. The antibody is especially useful for immunoprecipitation. The epitope was localized within the 15 aa residues of the C-terminus of p16 protein.

Product images



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References

Publication	Species	Application
Shibata, K. R. et al. Expression of the p16INK4A gene is associated closely with senescence of human mesenchymal stem cells and is potentially silenced by DNA methylation during in vitro expansion. Stem Cells 25, 2371â€“82 (2007).	human	WB,ICC-IF
Wiest, T. et al. Involvement of intact HPV16 E6/E7 gene expression in head and neck cancers with unaltered p53 status and perturbed pRb cell cycle control. Oncogene 21, 1510â€“1517 (2002).	human	IHC (paraffin)
Lukas, J. et al. Retinoblastoma-protein-dependent cell-cycle inhibition by the tumour suppressor p16. Nature 375, 503â€“506 (1995).	human	WB,ICC-IF