CDK4 Antibody

Mouse Monoclonal Antibody [Clone CDK4/8896]

Catalog No	Format	Size
1019-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1019-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1019-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

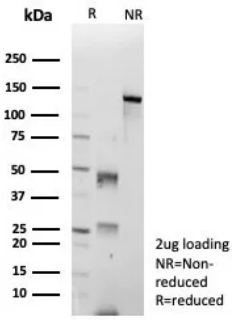
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

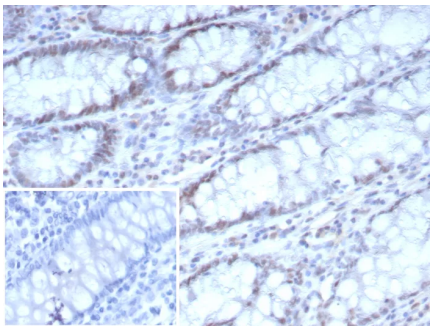
Clone	CDK4/8896
Gene Name	CDK4
Immunogen	Recombinant fragment (around aa150-303) of human CDK4 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Nucleus. Cytoplasm.
Species Reactivity	Human
Positive Control	cervical carcinoma and liposarcomas.|Human urothelial carcinoma

**Optimal dilution for a specific application should be determined.*

Product Images for CDK4 Antibody



SDS-PAGE Analysis of Purified CDK4 Mouse Monoclonal Antibody (CDK4/8896). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human colon carcinoma stained with CDK4 Mouse Monoclonal Antibody (CDK4/8896). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. It is essential for the G1- to S-phase transition during the cell cycle and its expression is primarily controlled at the transcriptional level (PMID:17253961). CCND1-CDK4 axis is not only critical in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment that are vital to sustain tumor outgrowth (PMID:21844184). CDK4 is highly expressed in highly differentiated and dedifferentiated liposarcomas, but rarely expressed in other benign liposarcomas and other sarcomas. CDK4 and MDM2 combined to differentiate between highly differentiated liposarcoma (+), dedifferentiated liposarcoma (+) and myxoid liposarcoma, pleomorphic liposarcoma, spindle lipoma, pleomorphic lipoma and other high-grade sarcomas.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Bladder Cancer, Breast Cancer, Cardiovascular, Developmental Biology, Infectious Disease, Lung Cancer, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.