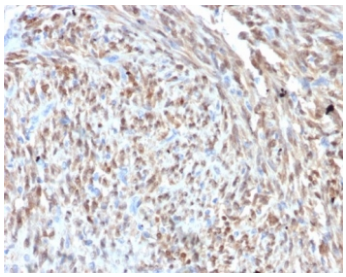
CDK4 Antibody [clone CDK4/7987R] (V4306)

Catalog No.	Formulation	Size
V4306-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4306-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4306SAF-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
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDK4/7987R
Purity	Protein A/G affinity
UniProt	P11802
Localization	Nucleus, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CDK4 antibody is available for research use only.



IHC staining of FFPE human liposarcoma tissue with CDK4 antibody (clone CDK4/7987R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

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. 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. 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.

Application Notes

Optimal dilution of the CDK4 antibody should be determined by the researcher.

Immunogen

A recombinant fragment corresponding to the N-terminal of human CDK4 protein was used as the immunogen for the CDK4 antibody.

Storage

Aliquot the CDK4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.