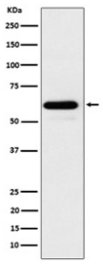
CDC73 Antibody / Cell division cycle protein 73 [clone 31C54] (FY12578)

Catalog No.	Formulation	Size
FY12578	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

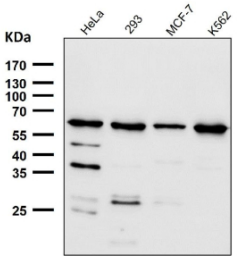
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31C54
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q6P1J9
Applications	Western blot: 1:500-1:2000
Limitations	This CDC73 antibody is available for research use only.



Western blot analysis of HRPT2/CDC73 expression in 293T cell lysate using CDC73 antibody. Predicted molecular weight ~61 kDa.



All lanes use the CDC73 antibody at 1:1K dilution for 1 hour at room temperature.
Predicted molecular weight ~61 kDa.

Description

CDC73 antibody detects cell division cycle protein 73, a tumor suppressor encoded by the CDC73 gene. CDC73 is also known as parafibromin and functions as a subunit of the PAF1 transcriptional regulatory complex. Through its association with RNA polymerase II, CDC73 regulates transcription elongation, histone modification, and RNA processing. Its tumor suppressor activity is critical for preventing uncontrolled cell growth and maintaining genomic integrity.

CDC73 antibody is widely applied in cancer research, molecular biology, and genetic studies. Mutations in CDC73 are associated with hyperparathyroidism-jaw tumor syndrome and parathyroid carcinoma. By detecting CDC73 expression, researchers can investigate its role in tumor suppression and transcriptional control. Loss of CDC73 expression serves as a diagnostic marker for parathyroid malignancy and supports studies of endocrine tumors.

Western blot assays reveal CDC73 protein in nuclear extracts, while immunohistochemistry highlights nuclear localization in normal tissues and its loss in tumor samples. Immunofluorescence provides high-resolution visualization of parafibromin within nuclear transcriptional complexes. These applications make CDC73 antibody valuable for both research and diagnostic contexts.

CDC73 also regulates histone methylation and chromatin remodeling through its interaction with the PAF1 complex. This regulation influences expression of genes involved in cell cycle, apoptosis, and development. By applying CDC73 antibody, scientists can study how transcriptional regulation by parafibromin contributes to normal growth and cancer prevention.

CDC73 antibody from NSJ Bioreagents provides strong specificity for analyzing tumor suppressor function and transcriptional regulation. Its performance across applications ensures accurate results for basic research, oncology, and clinical pathology.

Application Notes

Optimal dilution of the CDC73 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human HRPT2 / CDC73 was used as the immunogen for the CDC73 antibody.

Storage

Store the CDC73 antibody at -20oC.

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