

Cyclin dependent kinase 9 Antibody / CDK9 [clone GIH-3] (RQ8891)

Catalog No.	Formulation	Size
RQ8891	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

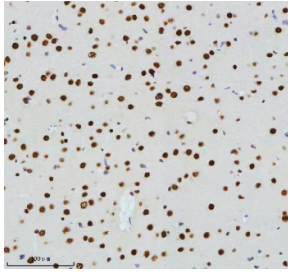
Recombinant **RABBIT MONOCLONAL**

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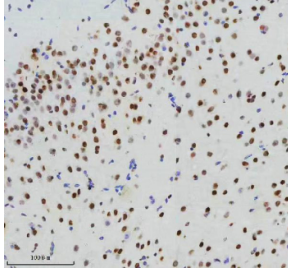
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	GIH-3
Purity	Affinity chromatography
UniProt	P50750
Localization	Nucleus, Cytoplasm
Applications	Western Blot : 1:500 Immunohistochemistry (FFPE) : 1:50
Limitations	This Cyclin dependent kinase 9 antibody is available for research use only.



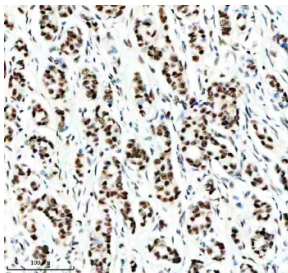
IHC staining of FFPE rat brain tissue with Cyclin dependent kinase 9 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



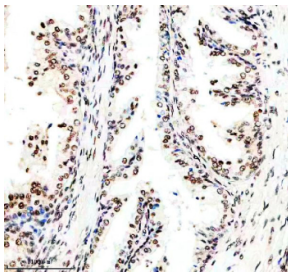
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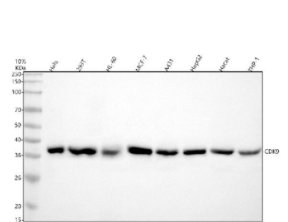
IHC staining of FFPE mouse brain tissue with Cyclin dependent kinase 9 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer tissue with Cyclin dependent kinase 9 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate cancer tissue with Cyclin dependent kinase 9 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) 293T, 3) HL60, 4) MCF7, 5) A431, 6) HepG2, 7) HaCaT and 8) ThP-1 cell lysate with Cyclin dependent kinase 9 antibody. Predicted molecular weight ~43 kDa.

Description

Cyclin dependent kinase 9 (CDK9) is a serine/threonine kinase that forms part of the positive transcription elongation factor b (P-TEFb) complex. It plays a key role in regulating RNA polymerase II-mediated transcription by phosphorylating the C-terminal domain, enabling transcriptional elongation of target genes.

CDK9 activity is essential for the expression of genes involved in cell cycle control, differentiation, and stress responses. Dysregulation of CDK9 has been linked to various cancers, cardiac hypertrophy, and inflammatory diseases, making it an important target for therapeutic research.

Using a high-quality Cyclin dependent kinase 9 antibody allows for reliable detection in applications such as western blot, immunohistochemistry, and immunoprecipitation. A Cyclin dependent kinase 9 antibody from NSJ Bioreagents ensures sensitivity and reproducibility in studies of transcription regulation, cell cycle control, and disease mechanisms. Selecting the right Cyclin dependent kinase 9 antibody is critical for producing accurate and consistent research results.

Application Notes

Optimal dilution of the Cyclin dependent kinase 9 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to Cyclin dependent kinase 9 was used as the immunogen for the Cyclin dependent kinase 9 antibody.

Storage

After reconstitution, the Cyclin dependent kinase 9 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.