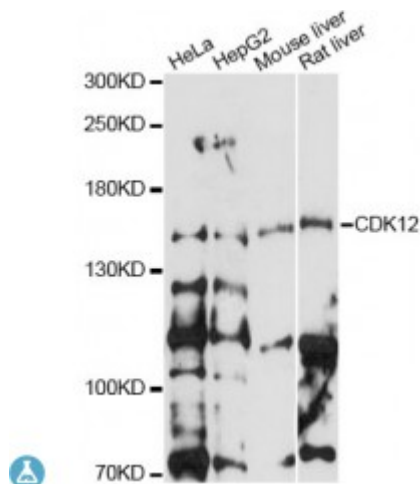


Anti-CDK12 Antibody



Model	STJ117094
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 80-290 of human CDK12 (NP_057591.2).
Gene ID	51755
Gene Symbol	CDK12
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Ubiquitously expressed
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Cyclin-dependent kinase 12
Molecular Weight	164.155 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:24224 OMIM:615514 Reactome:R-HSA-6796648

Alternative Names	Cyclin-dependent kinase 12
Function	Cyclin-dependent kinase that phosphorylates the C-terminal domain (CTD) of the large subunit of RNA polymerase II (POLR2A), thereby acting as a key regulator of transcription elongation, Regulates the expression of genes involved in DNA repair and is required for the maintenance of genomic stability, Preferentially phosphorylates 'Ser-5' in CTD repeats that are already phosphorylated at 'Ser-7', but can also phosphorylate 'Ser-2', Required for RNA splicing, possibly by phosphorylating SRSF1/SF2, Involved in regulation of MAP kinase activity, possibly leading to affect the response to estrogen inhibitors,
Cellular Localization	Nucleus, Nucleus speckle,
Post-translational Modifications	Phosphorylation at Thr-893 increases kinase activity,

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