

Anti-CDK12 antibody



Description	Unconjugated Rabbit polyclonal to CDK12
Model	STJ191676
Host	Rabbit
Reactivity	Human, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human CDK12 protein.
Immunogen Region	50-130aa
Gene ID	51755
Gene Symbol	CDK12
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	CDK12 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Ubiquitously expressed.
Purification	CDK12 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Cyclin-dependent kinase 12 Cdc2-related kinase, arginine/serine-rich CrkRS Cell division cycle 2-related protein kinase 7 CDC2-related protein kinase 7 Cell division protein kinase 12 hCDK12
Molecular Weight	163 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:24224OMIM:615514
Alternative Names	Cyclin-dependent kinase 12 Cdc2-related kinase, arginine/serine-rich CrkRS Cell division cycle 2-related protein kinase 7 CDC2-related protein kinase 7 Cell division protein kinase 12 hCDK12
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. Colocalized with nuclear speckles throughout interphase.
Post-translational Modifications	Phosphorylation at Thr-893 increases kinase activity.