10320 Camino Santa Fe, Suite G
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CDK12 / CRKRS Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10900

Specification

CDK12 / CRKRS Antibody (C-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q9NYV4
Reactivity	**Human, Mouse, Rabbit, Hamster, Monkey, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**164kDa KDa**

CDK12 / CRKRS Antibody (C-Terminus) - Additional Information

Gene ID 51755

Other Names
Cyclin-dependent kinase 12, 2.7.11.22, 2.7.11.23, 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, CDK12, CRK7, CRKRS, KIAA0904

Target/Specificity
Human CDK12 / CRKRS. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except POMT1 (37%).

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
CDK12 / CRKRS Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CDK12 / CRKRS Antibody (C-Terminus) - Protein Information

Name CDK12

Synonyms CRK7, CRKRS, KIAA0904

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 Location
Nucleus. Nucleus speckle. Note=Colocalized with nuclear speckles throughout interphase.

Tissue Location
Widely expressed..

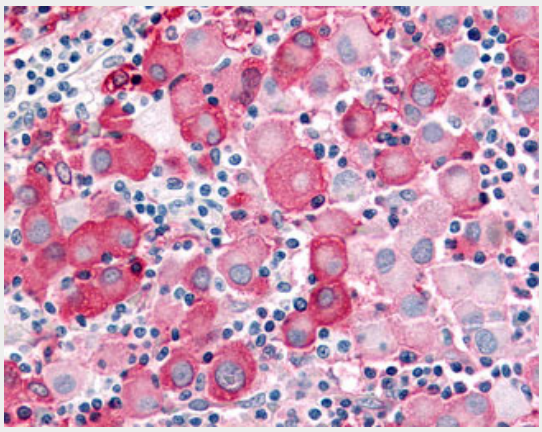
Volume
50 µl

CDK12 / CRKRS Antibody (C-Terminus) - Protocols

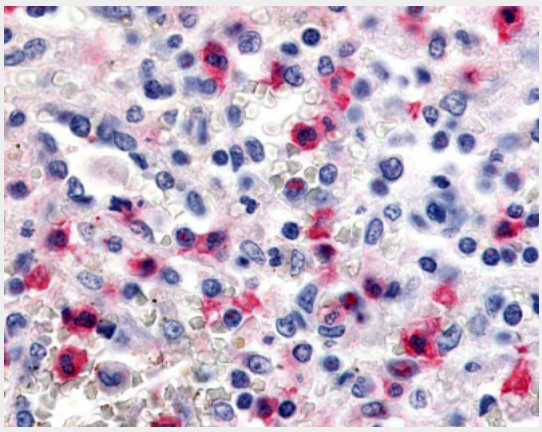
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CDK12 / CRKRS Antibody (C-Terminus) - Images



Anti-CDK12 / CRKRS antibody IHC of human Skin, Melanoma.



Anti-CDK12 / CRKRS antibody ALS10900 IHC of human spleen.

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CDK12 / CRKRS Antibody (C-Terminus) - Background

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CDK12 / CRKRS Antibody (C-Terminus) - References

Ko T.K.,et al.J. Cell Sci. 114:2591-2603(2001).
Nagase T.,et al.DNA Res. 5:355-364(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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