

CDK7 recombinant antibody

Rabbit anti-CDK7 Recombinant Monoclonal Antibody [BL-80-5D4]

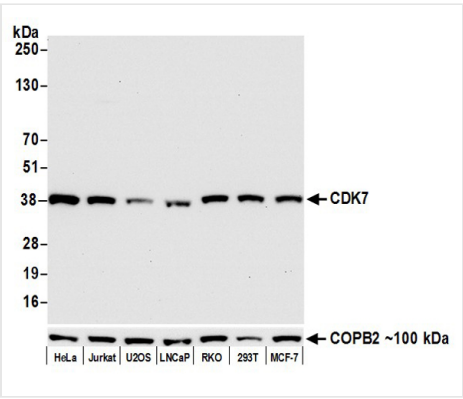
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213531	Rabbit	Human	Flow Cytometry, Functional Assay, Immunocytochemistry, Immunohistochemistry, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

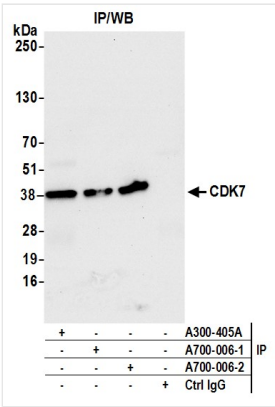
CDK7; Monoclonal Recombinant Antibody; Rabbit anti-CDK7 Recombinant Monoclonal Antibody [BL-80-5D4]; serine/threonine kinase stk1; TFIIF basal transcription factor complex kinase subunit; STK1; Serine/threonine-protein kinase 1; serine/threonine protein kinase 1; p39MO15; p39 Mo15; MO15; kinase subunit of CAK; 39 KDa protein kinase; HCAK; cyclin-dependent kinase 7 (MO15 homolog; Xenopus laevis; cdk-activating kinase); cyclin-dependent kinase 7; cell division protein kinase 7; CDKN7; CDK-activating kinase 1; CAK1; CAK; homolog of Xenopus MO15 Cdk-activating kinase; serine/threonine protein kinase MO15; Cyclin-dependent kinase 7; cyclin dependent kinase 7; CDK7 recombinant antibody

PRODUCT SPECIFICATIONS

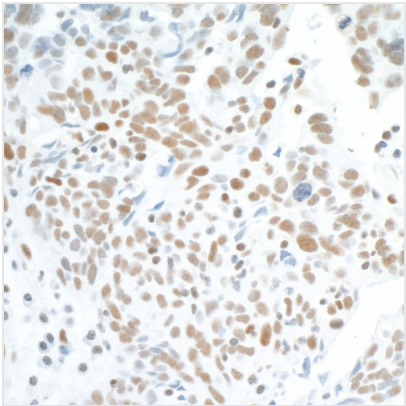
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	BL-80-5D4
Purity/Purification	Purified
Form/Format	Liquid. Whole IgG. Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
Concentration	40ug/ml (varies by lot)
Applicable Applications for CDK7 recombinant antibody	FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Between 296 and C-terminus
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



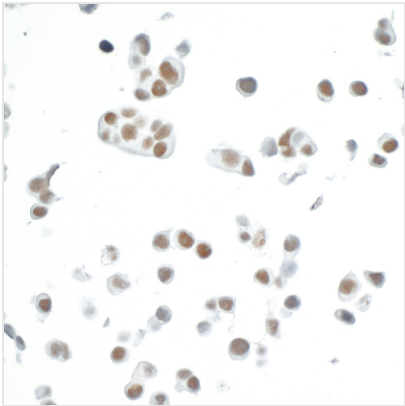
WB (Western Blot)
Detection of human CDK7 by western blot. Samples: Whole cell lysate (15 ug) from HeLa, Jurkat, U2OS, LNCaP, RKO, HEK293T, and MCF-7 cells prepared using NETN lysis buffer. Antibody: Rabbit anti-CDK7 recombinant monoclonal antibody [BL-80-5D4] (AAA213531 lot 2) used at 1:1000. Secondary: HRP-conjugated goat anti-rabbit IgG . Detection: Chemiluminescence with an exposure time of 10 seconds. Lower Panel: Rabbit anti-COPB2 .



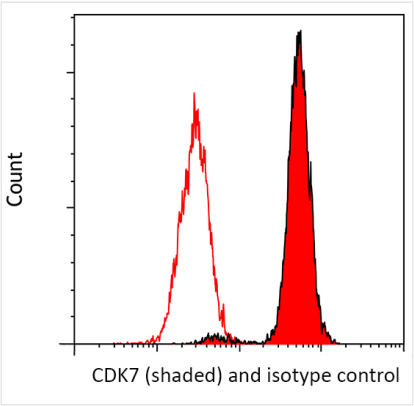
IP (Immunoprecipitation)
Detection of human CDK7 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Rabbit anti-CDK7 recombinant monoclonal antibody [BL-80-5D4] (AAA213531 lot 2) used for IP at 20 ul/mg lysate. CDK7 was also immunoprecipitated by a previous lot of this antibody (lot AAA213531-1) and rabbit anti-CDK7 antibody For blotting immunoprecipitated CDK7, AAA213531 was used at 1:1000. Detection: Chemiluminescence with an exposure time of 10 seconds.



IHC (Immunohistochemistry)
Detection of human CDK7 in FFPE ovarian carcinoma by IHC. Antibody: Rabbit anti-CDK7 recombinant monoclonal antibody [BL-80-5D4] (AAA213531 lot 2). Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



ICC (Immunocytochemistry)
Detection of human CDK7 in FFPE MCF7 cells by ICC. Antibody: Rabbit anti-CDK7 recombinant monoclonal antibody [BL-80-5D4] (AAA213531 lot 2). Secondary: HRP-conjugated goat anti-rabbit IgG . Substrate: DAB.



FCM/FACS (Flow Cytometry)
Detection of human CDK7 by flow cytometry. Sample: MOLT4 cells were fixed in 4% formaldehyde and permeabilized with 90% methanol. Antibody: 1E6 cells were incubated with 1 ul of rabbit anti-CDK7 recombinant monoclonal antibody [BL-80-5D4] (AAA213531 lot 1) (red shaded) or isotype control (unshaded). Secondary: DyLight 650-conjugated goat anti-rabbit IgG .

ADDITIONAL INFORMATION

Related Product Information for CDK7 recombinant antibody	Cyclin-dependent kinase 7 (CDK7) is a member of the CDK family of protein kinases that regulate cell cycle progression. CDK7 is the catalytic subunit in a trimeric complex with cyclin H and MAT1 that functions as a Cdk-activating kinase (CAK). CDK7 activates the kinase activities of CDK1, CDK2, CDK4, and CDK6 by threonine phosphorylation. In addition to its cell cycle function CDK7 has also been found to be an essential component of the transcription factor TFIIH. Several substrates of CDK7 are involved in transcription, further indicating a role in transcription.
Product Categories/Family for CDK7 recombinant antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502743
NCBI GeneID	1022
NCBI Accession #	NP_001790.1
NCBI GenBank Nucleotide #	NM_001799.3
UniProt Accession #	P50613; Q9BS60; Q9UE19
Molecular Weight	39,038 Da
NCBI Official Full Name	cyclin-dependent kinase 7
NCBI Official Synonym Full Names	cyclin-dependent kinase 7
NCBI Official Symbol	CDK7
NCBI Official Synonym Symbols	CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
NCBI Protein Information	cyclin-dependent kinase 7; CAK; p39 Mo15; protein kinase; 39 KDa protein kinase; kinase subunit of CAK; CDK-activating kinase 1; serine/threonine kinase stk1; cell division protein kinase 7; serine/threonine protein kinase 1; serine/threonine-protein kina
UniProt Protein Name	Cyclin-dependent kinase 7
UniProt Gene Name	CDK7
UniProt Synonym Gene Names	CAK; CAK1; CDKN7; MO15; STK1; p39 Mo15
UniProt Entry Name	CDK7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cdk7-recombinant-antibody-clone-bl-80-5d4-flow-cytometry-immunocytochemistry-immunohistochemistry-immunoprecipitation-western-blot-elisa/213531>