

Rabbit anti-Human, Rat Cyclin D3 Polyclonal Antibody | anti-CCND3 antibody

Anti-Cyclin D3 Antibody

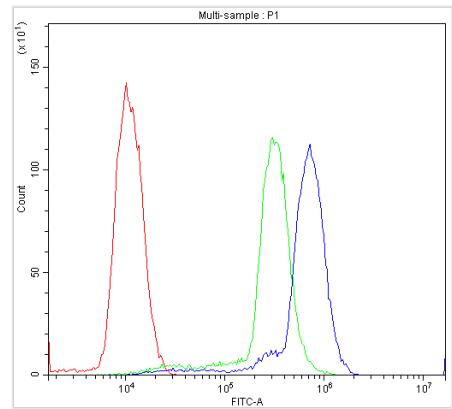
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45729	Rabbit	Human, Rat	Western Blot

PRODUCT SYNONYMS

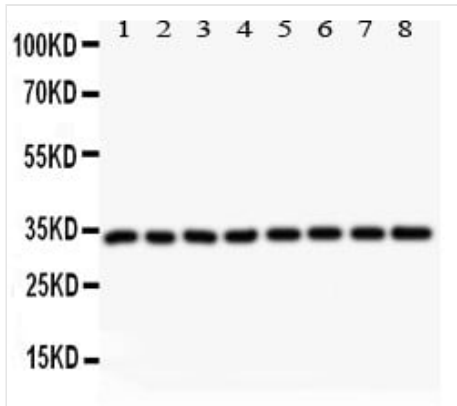
Cyclin D3; Polyclonal Antibody; Anti-Cyclin D3 Antibody; G1/S-specific cyclin-D3; cyclin D3; CCND 3 antibody; CCND3 antibody; CCND3_HUMAN antibody; CyclinD3 antibody; D3 type cyclin antibody; G1 S specific cyclin D3 antibody; G1/S specific cyclin D3 antibody; G1/S-specific cyclin-D3 antibody; anti-CCND3 antibody

PRODUCT SPECIFICATIONS

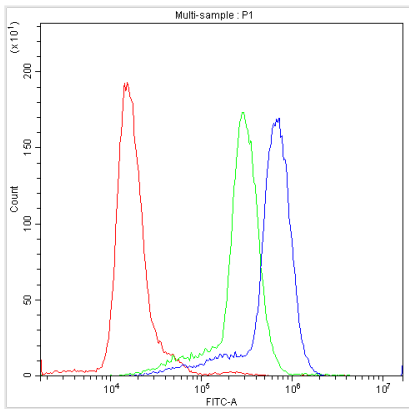
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	292
Applicable Applications for anti-CCND3 antibody	WB (Western Blot)
Immunogen	E Coli-derived human Cyclin D3 recombinant protein (Position: Q136-L292). Human Cyclin D3 shares 94% and 93% amino acid (aa) sequences identity with mouse and rat Cyclin D3, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



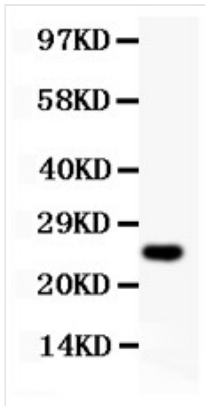
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of THP-1 cells using anti-Cyclin D3 antibody (AAA45729).Overlay histogram showing THP-1 cells stained with AAA45729 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cyclin D3 Antibody (AAA45729,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 2. Western blot analysis of Cyclin D4 using anti-Cyclin D4 antibody (AAA45729).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.lane 1: rat testis tissue lysate,lane 2: rat thymus tissue lysate,lane 3: rat lung tissue lysate,lane 4: rat ovary tissue lysate,lane 5: JURKAT whole cell lysate,lane 6: A549 whole cell lysate,lane 7: MCF-7 whole cell lysate,lane 8: HELA whole cell lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cyclin D4 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin D4 at approximately 33KD. The expected band size for Cyclin D4 is at 33KD.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of K562 cells using anti-Cyclin D3 antibody (AAA45729).Overlay histogram showing K562 cells stained with AAA45729 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cyclin D3 Antibody (AAA45729,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Cyclin D3 using anti-Cyclin D3 antibody (AAA45729).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.lane 1: recombinant human Cyclin D3 protein 0.5ng.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cyclin D3 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin D3 at approximately 25KD. The expected band size for Cyclin D3 is at 25KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CCND3 antibody

Description: Rabbit IgG polyclonal antibody for G1/S-specific cyclin-D3(CCND3) detection. Tested with WB in Human, Rat.

Background: CCND3, also called Cyclin D3, is a protein that in humans is encoded by the CCND3 gene. It is mapped to 6p21.1. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. In addition, overexpression of CCND3 upregulated the translational activity in HeLa cells in a dose-dependent manner.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20981685
NCBI GeneID	896
UniProt Accession #	P30281; Q5T8J0; Q6FG62; Q96F49; B2RD63; B3KQ22; E9PAS4; E9PB36
Molecular Weight	9,736 Da
NCBI Official Full Name	G1/S-specific cyclin-D3
NCBI Official Synonym Full Names	cyclin D3
NCBI Official Symbol	CCND3
NCBI Protein Information	G1/S-specific cyclin-D3; D3-type cyclin; G1/S-specific cyclin D3
UniProt Protein Name	G1/S-specific cyclin-D3
UniProt Gene Name	CCND3
UniProt Entry Name	CCND3_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/polyclonal/cyclin-d3-antibody-western-blot-elisa/45729>