abcam

ab245734

Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP207
Purification technique	Affinity purification Protein A/G
Concentration	1.018 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

WB

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse, Rat, Cow
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	Boil tissue section in EDTA buffer, pH 8.0 for 10 min followed by cooling at room temperature for 20 min.

Predicted

Species	Mouse, Rat, Cow
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat, Cow
Dilution info	-

Notes	-

Target data

See full target information G1/S-specific cyclin-D3

Function	Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition (PubMed:8114739). Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase (PubMed:8114739). Hypophosphorylates RB1 in early G(1) phase (PubMed:8114739). Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals (PubMed:8114739). Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed:16782892). Shows transcriptional coactivator activity with ATF5 independently of CDK4 (PubMed:15358120).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab245734 is the carrier-free version of ab183338.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

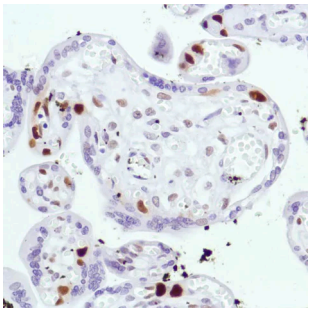
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

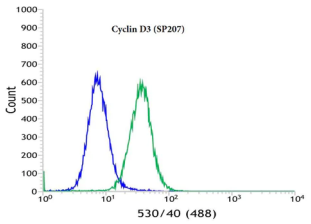
12 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

Immunohistochemical analysis of paraffin-embedded human placenta tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).

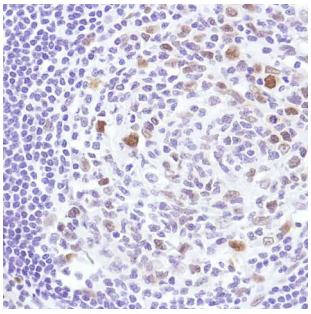


Flow Cytometry (Intracellular) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Flow Cytometry (Intracellular) staining using rabbit Anti-Cyclin D3/CCND3 antibody

Immunohistochemical analysis of paraffin-embedded Human cervical squamous cell carcinoma tissue, labeling Cyclin D3 with ab183338 at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183338)

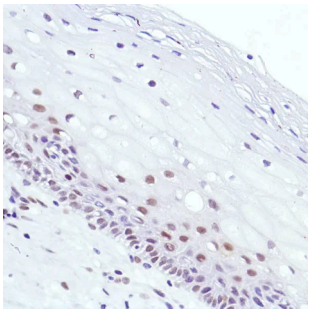


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue, labeling Cyclin D3 with ab183338 at 1/100 dilution.

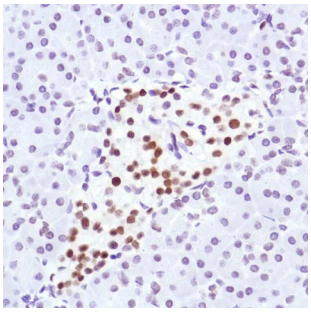
This data was developed using the same antibody clone in a different buffer formulation containing PBS#44; BSA#44; and sodium azide (ab183338)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

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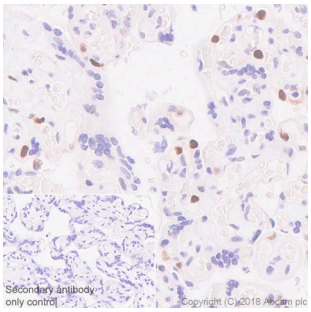
Immunohistochemical analysis of paraffin-embedded human cervix tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

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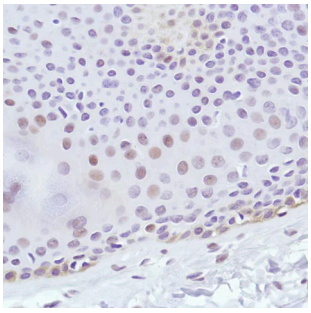
Immunohistochemical analysis of paraffin-embedded human pancreas tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

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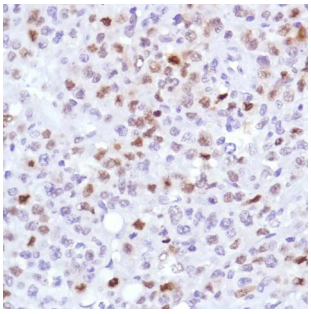
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human placenta tissue sections labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution (3.35 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183338)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

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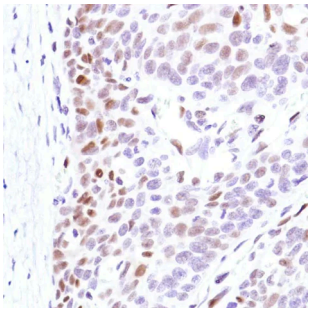
Immunohistochemical analysis of paraffin-embedded human skin tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

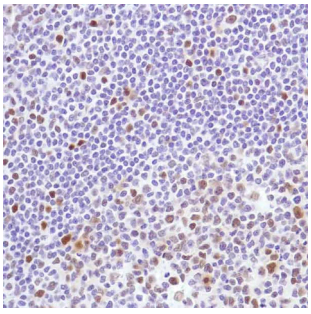
Immunohistochemical analysis of paraffin-embedded human B-cell lymphoma tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

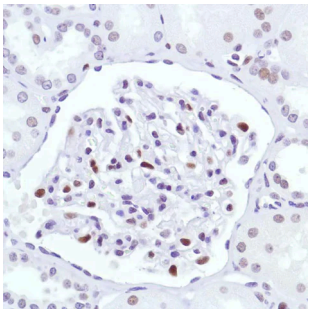
Immunohistochemical analysis of paraffin-embedded human cervical squamous cell carcinoma tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

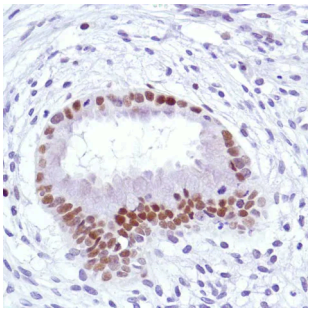
Immunohistochemical analysis of paraffin-embedded human tonsil tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Cyclin D3/CCND3 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cyclin D3/CCND3 antibody

Immunohistochemical analysis of paraffin-embedded human kidney tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [SP207] - BSA and Azide free (ab245734)

Immunohistochemical analysis of paraffin-embedded human uterus tissue, labeling Cyclin D3/CCND3 with ab183338 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab183338).

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