abcam

ab183326

Anti-CD38 antibody [SP149] - C-terminal

Anti-CD38 antibody [SP149] - C-terminal (ab183326) is a rabbit monoclonal antibody detecting CD38 in **Flow Cytometry, IHC-P**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: Tissue culture supernatant, Tris buffered saline, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP149
Purification technique	Affinity purification Protein A/G
Purification notes	Purified from TCS by protein A/G.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	

Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

Flow Cyt

Tested

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

Predicted

Species	Rhesus monkey
Dilution info	-
Notes	-

Target data

See full target information CD38

Function Multifunctional transmembrane glycoprotein able to exert enzymatic activities and also to mobilize calcium, to transduce signals, to adhere to hyaluronan and to other ligands. Synthesizes cyclic ADP-ribose (cADPR), a second messenger for glucose-induced insulin secretion (PubMed:7961800, PubMed:8253715). Synthesizes the Ca(2+) mobilizer nicotinate-adenine dinucleotide phosphate, NAADP(+), from 2'-phospho-cADPR and nicotinic acid, as well as from NADP(+) and nicotinic acid. At both pH 5.0 and pH 7.4 preferentially transforms 2'-phospho-cADPR into NAADP(+), while preferentially cleaving NADP(+) to cADPR and ADPRP rather than into NADDP(+) (PubMed:16690024). Has cADPR hydrolase activity (PubMed:7961800, PubMed:8253715). Functions also as a receptor that binds the ligand CD31 on endothelial cells, promoting lymphocyte activation, proliferation, and migration across the endothelial barrier (PubMed:9551996). Involved in the regulation of crucial dendritic cell functions acquired at the mature stage, such as CCL21-driven migration, survival, and Th1-polarizing activity (PubMed:16293598).

In lamina propria T lymphocytes, CD38/CD31 cognate interactions initiate a multistep signaling pathway resulting in activation of LCK anf LAT, followed by cytokine release (PubMed:11259373).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-CD38 antibody [SP149] - C-terminal (ab183326) is a rabbit recombinant monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P) in Human samples.

Collaboration
Anti-CD38 [SP149] - C-terminal (ab183326) is a clone from the portfolio of Spring Bioscience (Roche) SP clones which have been optimised for immunohistochemistry (IHC).

Other related products
We have a range of other formats of antibody clone [SP149] also available for your convenience: ab183326, Carrier free - ab236232, ab279486, PE - ab306156, APC - ab306157, HRP - ab306158, Alkaline Phosphatase - ab308991, Alexa Fluor® 488 - ab309934, Alexa Fluor® 647 - ab310301, Alexa Fluor® 594 - ab310764, Alexa Fluor® 555 - ab312291, Alexa Fluor® 568 - ab312786, Alexa Fluor® 750 - ab321269

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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.

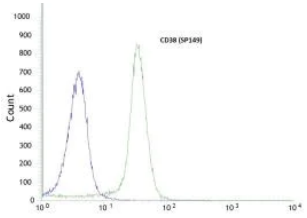
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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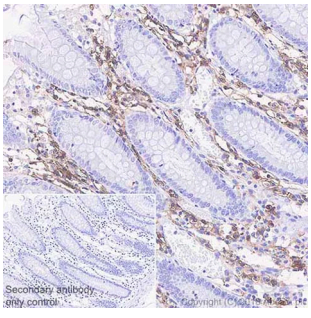
17 product images



Flow Cytometry - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Flow Cytometry staining using rabbit Anti-CD38 antibody

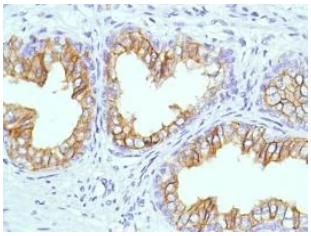
Flow cytometric analysis of rabbit anti-CD38 C terminal (SP149) ab183326 (1/100) antibody in HeLa cells (green) compared to negative control of rabbit IgG (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

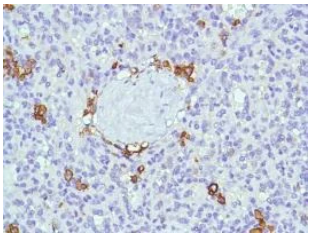
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue sections labeling CD38 with ab183326 at 1/100 dilution. Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on stromal cells in human colon, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab183326 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

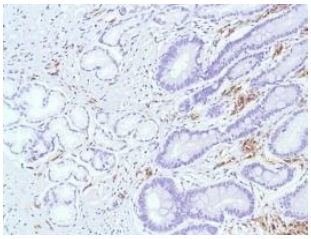
Immunohistochemical analysis of paraffin embedded Human prostate tissue labeling CD38 with ab183326 at 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

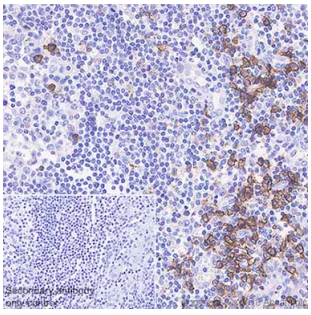
Immunohistochemical analysis of paraffin embedded Human spleen tissue labeling CD38 with ab183326 at 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

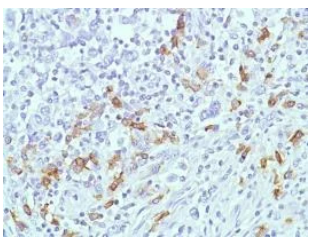
Immunohistochemical analysis of paraffin embedded Human stomach tissue labeling CD38 with ab183326 at 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

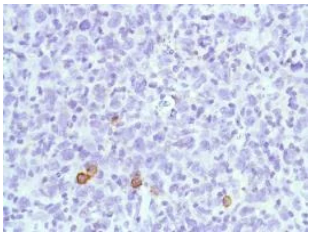
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling CD38 with ab183326 at 1/100 dilution. Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Membranous staining on sporadic cells in human tonsil, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab183326 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

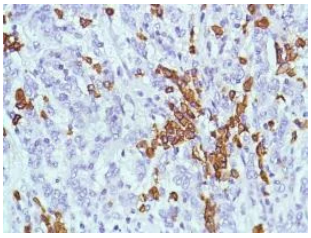
CD38 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD38 antibody

Immunohistochemical analysis of paraffin embedded Human HK Lymphoma tissue labeling CD38 with ab183326 at 1/100



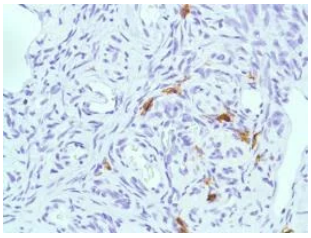
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human B cell lymphoma tissue labeling CD38 with ab183326 at 1/100.



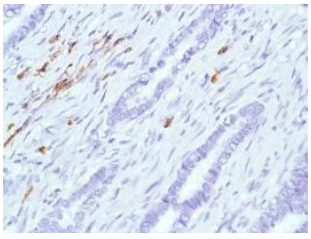
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human Stomach Adenocarcinoma tissue labeling CD38 with ab183326 at 1/100.



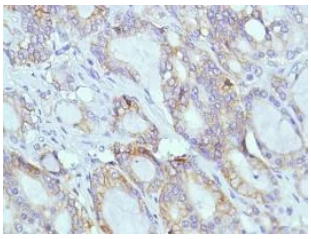
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human ovary tissue labeling CD38 with ab183326 at 1/100.



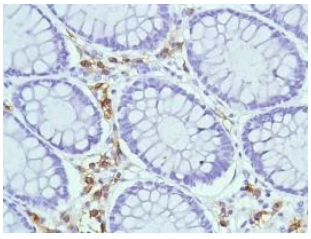
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human Colon Adenocarcinoma tissue labeling CD38 with ab183326 at 1/100.



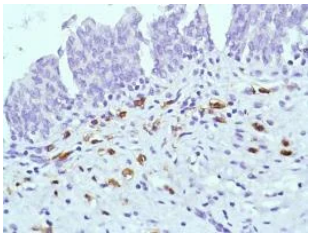
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human prostate adenocarcinoma tissue labeling CD38 with ab183326 at 1/100.



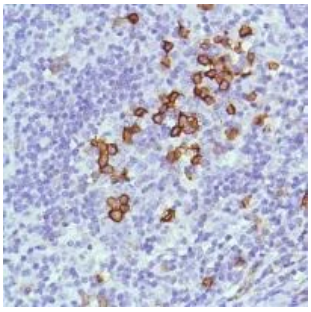
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human colon tissue labeling CD38 with ab183326 at 1/100.



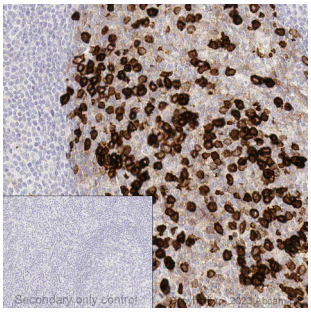
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human bladder tissue labeling CD38 with ab183326 at 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

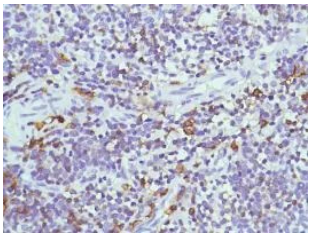
Immunohistochemical analysis of paraffin embedded Human tonsil tissue labeling CD38 with ab183326 at 1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of formalin-fixed paraffin-embedded human tonsil labelling CD38 with ab236232 at a concentration of 0.5µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with an OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was conducted for 32min with ULTRA cell conditioning solution (CC1 pH8.5). ab236232 anti C38 antibody was incubated at 37°C for 16min. Sections were counterstained is with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation (ab236232).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD38 antibody [SP149] - C-terminal (ab183326)

Immunohistochemical analysis of paraffin embedded Human thymus tissue labeling CD38 with ab183326 at 1/100.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.