### Overview

**Product name**: Anti-CD38 antibody [SP149] - C-terminal

**Description**: Rabbit monoclonal [SP149] to CD38 - C-terminal

**Host species**: Rabbit

**Tested applications**: Suitable for: IHC-P, Flow Cyt

**Species reactivity**

- **Reacts with**: Human
- **Predicted to work with**: Rhesus monkey

**Immunogen**: Synthetic peptide within Human CD38 aa 250 to the C-terminus (C terminal). The exact sequence is proprietary.

Database link: [P28907](#)

**Positive control**: FC: HeLa cells IHC-P: Human B cell and HK lymphoma tissue, Human prostate, colon and stomach adenocarcinoma tissue, Human stomach, bladder, spleen, tonsil, colon, thymus, ovary and Human prostate tissue.

### Properties

**Form**: Liquid


**Storage buffer**: pH: 7.6

- Preservative: 0.1% Sodium azide
- Constituents: Tissue culture supernatant, Tris buffered saline, 1% BSA

**Purity**: Tissue culture supernatant

**Purification notes**: Purified from TCS by protein A/G.

**Clonality**: Monoclonal

**Clone number**: SP149

**Isotype**: IgG

### Applications
Function
Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.

Tissue specificity
Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

Sequence similarities
Belongs to the ADP-ribosyl cyclase family.

Developmental stage
Preferentially expressed at both early and late stages of the B and T-cell maturation. It is also detected on erythroid and myeloid progenitors in bone marrow, where the level of surface expression was shown to decrease during differentiation of blast-forming unit E to colony-forming unit E.

Cellular localization
Membrane.

Form
There are 2 isoforms produced by alternative splicing.

Images
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) analysis of Human colon tissue sections labeling CD38 with ab183326 at 1/100 dilution (2.97 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. 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) analysis of Human tonsil tissue sections labeling CD38 with ab183326 at 1/100 dilution (2.97 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. 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.
Immunohistochemical analysis of paraffin embedded Human prostate tissue labeling CD38 with ab183326 at 1/100.

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

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

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

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

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

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

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

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

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