SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-CD38 Monoclonal Antibody

Catalog Number: SLA0615M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Clone No.:	7H11
GeneID:	952
SWISS:	P28907
Target:	CD38
Immunogen:	Recombinant human CD38 protein
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1ug/Test) ICC/IF (1:50-200) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	34 kDa
Subcellular Location:	Membrane
Background:	The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single

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	membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

[VALIDATION IMAGES]

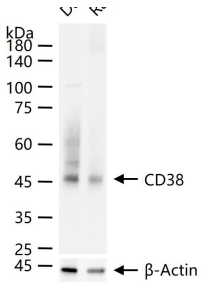


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with CD38 monoclonal antibody, unconjugated (SLA0615M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

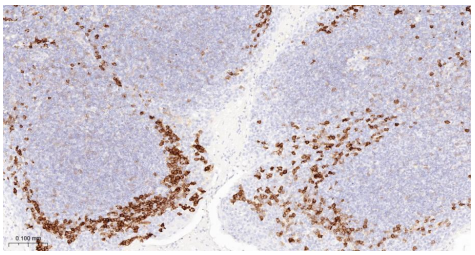


Figure 2. Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD38 Monoclonal Antibody, Unconjugated (SLA0615M) at 1:200 overnight at 4°C, followed by conjugation to the SL40296G-HRP and DAB (C-0010) staining

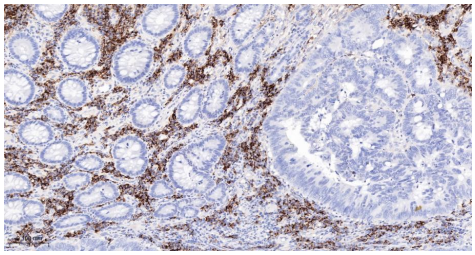


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD38 Monoclonal Antibody, Unconjugated (SLA0615M) at 1:200 overnight at 4°C, followed by conjugation to the SL40296G-HRP and DAB (C-0010) staining

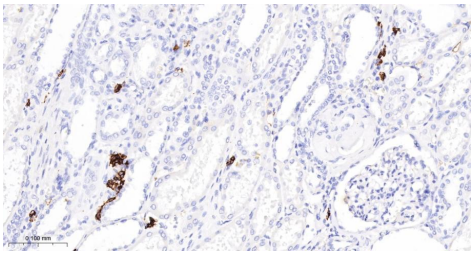


Figure 4. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD38 Monoclonal Antibody, Unconjugated (SLA0615M) at 1:200 overnight at 4°C, followed by conjugation to the SL40296G-HRP and DAB (C-0010) staining

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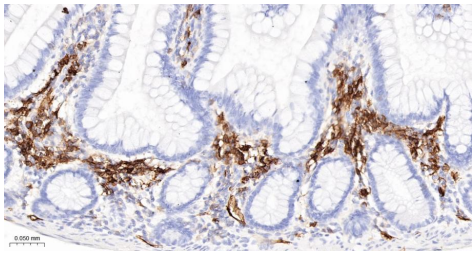


Figure 5. Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD38 Monoclonal Antibody, Unconjugated (SLA0615M) at 1:200 overnight at 4°C, followed by conjugation to the SL40296G-HRP and DAB (C-0010) staining

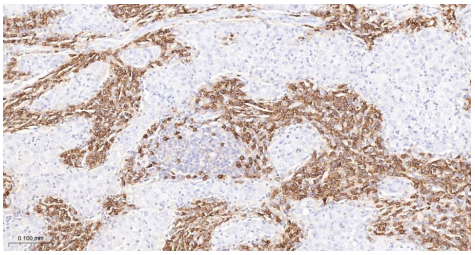


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Gastric Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with CD38 Monoclonal Antibody, Unconjugated (SLA0615M) at 1:200 overnight at 4°C, followed by conjugation to the SL40296G-HRP and DAB (C-0010) staining

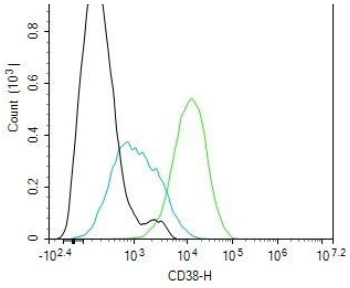


Figure 7. The Raji (H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-CD38 antibody (SLA0615M): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-FITC (SL60296G-FITC): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed

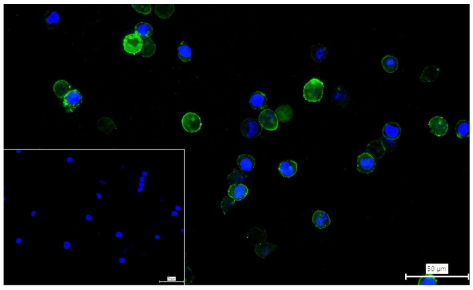


Figure 8. 4% Paraformaldehyde-fixed Raji (H) cell; Antibody incubation with (CD38) monoclonal Antibody, unconjugated (SLA0615M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, SL60296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control

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