

---

## CD31 Mouse mAb

Catalog Number: bsm-10825M

Target Protein: CD31

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 2D4

Isotype: IgG

Applications: WB (1:100-1000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (0.5ug/Test)

Reactivity: Human

Predicted MW: 78 kDa

Entrez Gene: 5175

Swiss Prot: P16284

Purification: affinity purified by Protein A

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

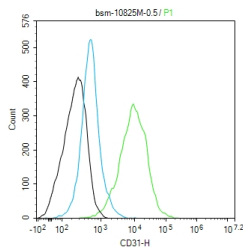
0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

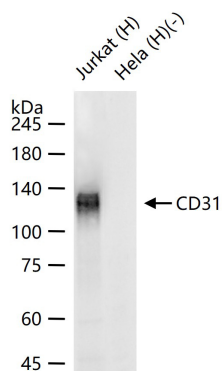
**Background:** The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]

### VALIDATION IMAGES

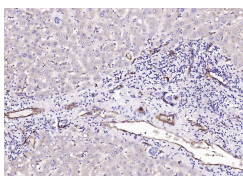
---



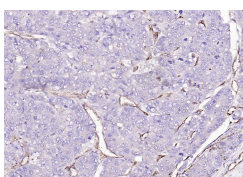
The THP-1(H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-CD31 antibody (bsm-10825M): 0.5  $\mu$ g/ $10^6$  cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-FITC (bs-60296G-FITC): 1  $\mu$ g/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.



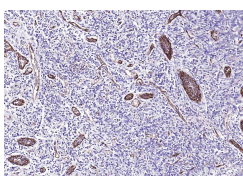
25  $\mu$ g total protein per lane of various lysates (see on figure) probed with CD31 monoclonal antibody, unconjugated (bsm-10825M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



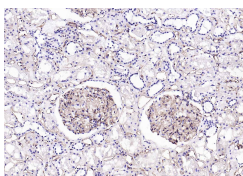
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD31) Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD31) Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD31) Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD31) Monoclonal Antibody, Unconjugated (bsm-10825M) at 1:100 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=11.322] Jinxiu Yu. et al. Promoting osseointegration of titanium by pH-responsive releasing of H<sub>2</sub>S and optimizing polarization time for macrophages. COMPOS PART B-ENG. 2023 Mar;253:110554 IHC,IF ; Rat . 10.1016/j.compositesb.2023.110554

[IF=10.041] Bingcheng Yi. et al. Lysine-doped polydopamine coating enhances antithrombogenicity and endothelialization of an electrospun aligned fibrous vascular graft. Appl Mater Today. 2021 Dec;25:101198 IF ; Human . 10.1016/j.apmt.2021.101198

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

[IF=3.1] Wu Jiaru. et al. Network pharmacological analysis and experimental verification of Zisheng Tongmai decoction in the treatment of premature ovarian failure. N-S ARCH PHARMACOL. 2024 Oct;;1-14 WB ; Mouse . 39352532