bsm-51748M **[Primary Antibody]**

Calreticulin Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1,K
Clonality: Monoclonal
CloneNo.: G3F7
GeneID: 811
SWISS: P27797
Target: Calreticulin
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: Calreticulin is a highly conserved chaperone protein which resides primarily in the endoplasmic reticulum, and is involved in a variety of cellular processes, among them, cell adhesion. Additionally, it functions in protein folding quality control and calcium homeostasis. Calreticulin is also found in the nucleus, suggesting that it may have a role in transcription regulation. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin. Recurrent mutations in calreticulin have been linked to various neoplasms, including the myeloproliferative type.[provided by RefSeq, May 2020]

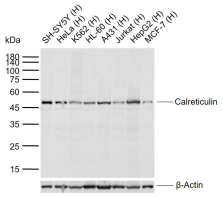
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

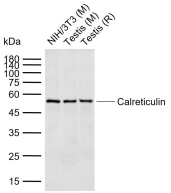
Predicted MW.: 44 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane ,Cytoplasm

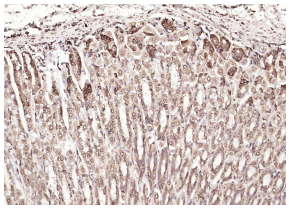
VALIDATION IMAGES



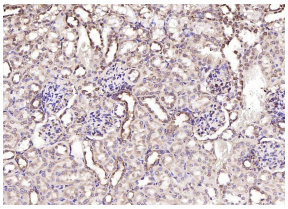
Sample: Lane 1: Human SH-SY5Y cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human K562 cell lysates Lane 4: Human HL-60 cell lysates Lane 5: Human A431 cell lysates Lane 6: Human Jurkat cell lysates Lane 7: Human HepG2 cell lysates Lane 8: Human MCF-7 cell lysates Primary: Anti-Calreticulin (bsm-51748M) at 1/1000 dilution Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific Predicted band size: 44 kDa Observed band size: 50 kDa



Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Mouse Testis tissue lysates Lane 3: Rat Testis tissue lysates Primary: Anti-Calreticulin (bsm-51748M) at 1/1000 dilution Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific Predicted band size: 44 kDa Observed band size: 55 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse stomach); 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 (Calreticulin) Monoclonal Antibody, Unconjugated (bsm-51748M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse 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 (Calreticulin) Monoclonal

Antibody, Unconjugated (bsm-51748M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=13]** Jiayi Li. et al. Reprogramming the Tumor Immune Microenvironment Through Activatable Photothermal Therapy and GSH depletion Using Liposomal Gold Nanocages to Potentiate Anti-Metastatic Immunotherapy. SMALL. 2024 Oct;:2407388 IF ;Mouse. 39359043
- **[IF=10.383]** Qingfei Zhang. et al. Hierarchical Microparticles Delivering Oxaliplatin and NLG919 Nanoprodrugs for Local Chemo-immunotherapy. ACS APPL MATER INTER. 2022;XXXX(XXX):XXX-XXX IF ;Mouse. 36263713