

## Calreticulin Mouse mAb

Catalog Number: bsm-51748M

Target Protein: Calreticulin

Concentration: 1mg/ml

Form: Liquid

Host: Mouse

Clonality: Monoclonal

Clone No.: G3F7

Isotype: IgG1,K

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

Entrez Gene: 811

Swiss Prot: P27797

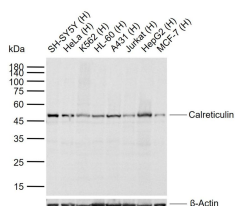
Purification: affinity purified by Protein G

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

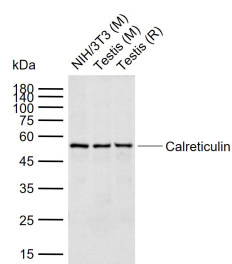
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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]

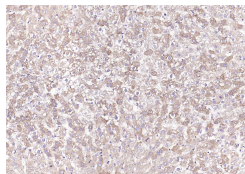
### VALIDATION IMAGES



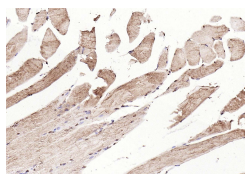
Sample: Lane 1: Human SH-SY5Y cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human K562 cell lysates Lane 4: Human HL-60 cell lysates Lane 5: Human A431 cell lysates Lane 6: Human Jurkat cell lysates Lane 7: Human HepG2 cell lysates Lane 8: Human MCF-7 cell lysates Primary: Anti-Calreticulin (bsm-51748M) 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



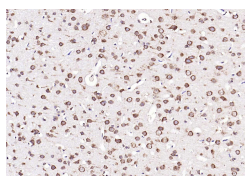
Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Mouse Testis tissue lysates Lane 3: Rat Testis tissue lysates  
 Primary: Anti-Calreticulin (bsm-51748M) at 1/1000 dilution Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific  
 Predicted band size: 44 kDa Observed band size: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



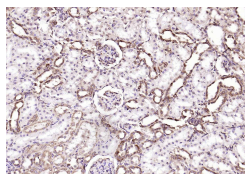
Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (bsm-51748M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); 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) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat 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) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[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 Nanoprodugs for Local Chemo-immunotherapy. ACS APPL MATER INTER. 2022;XXXX(XXX):XXX-XXX IF ; Mouse . 36263713