Data Sheet (Cat.No.TMAB-00272)

Anti-Calreticulin Antibody (6Q988)

Product Details

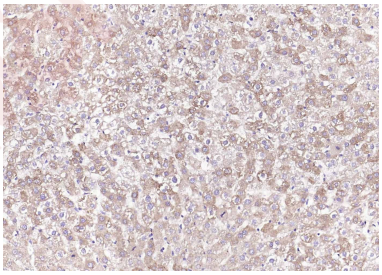
Ig Type:	IgG1, κ
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 44 kDa. Actual: 50 kDa.
Clone:	6Q988
Purification:	Protein G purified

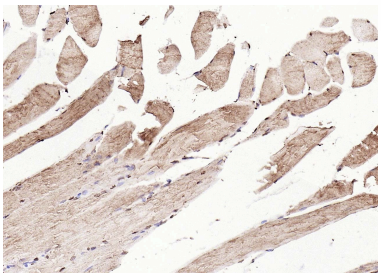
Applications

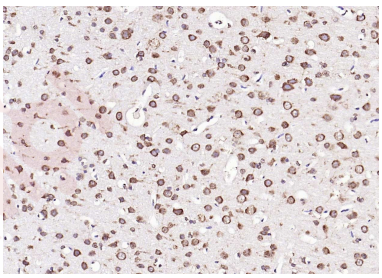
Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining. 2. Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining. 5. Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.

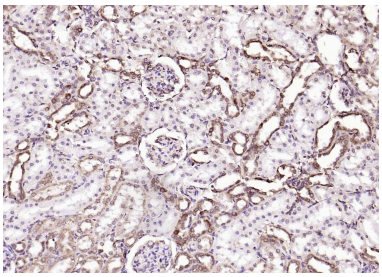
7. Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded (human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
9. Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
10. Paraformaldehyde-fixed, paraffin embedded (mouse skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
11. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
12. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
13. Paraformaldehyde-fixed, paraffin embedded (mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Calreticulin) Monoclonal Antibody, Unconjugated (TMAB-00272) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.
14. 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 (TMAB-00272) at 1/1000 dilution
Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific

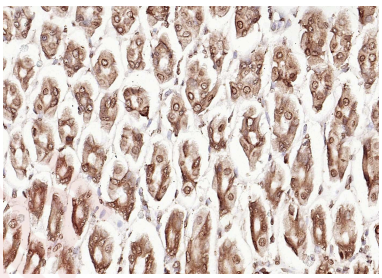
Predicted band size: 44 kDa
Observed band size: 50 kDa
15. Sample:
Lane 1: Mouse NIH/3T3 cell lysates
Lane 2: Mouse Testis tissue lysates
Lane 3: Rat Testis tissue lysates
Primary: Anti-Calreticulin (TMAB-00272) at 1/1000 dilution
Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific
Predicted band size: 44 kDa
Observed band size: 55 kDa

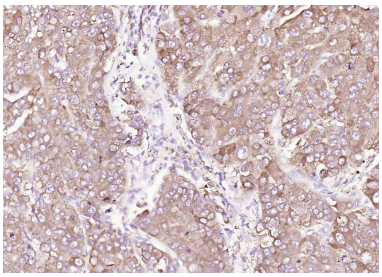


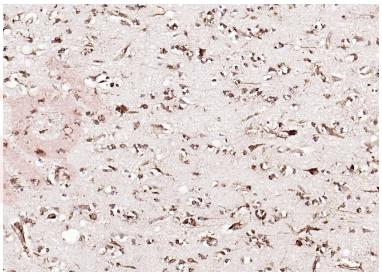


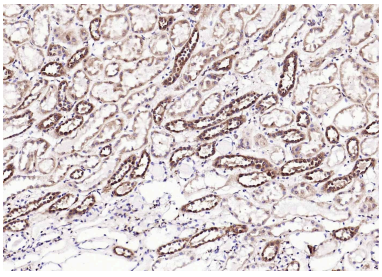


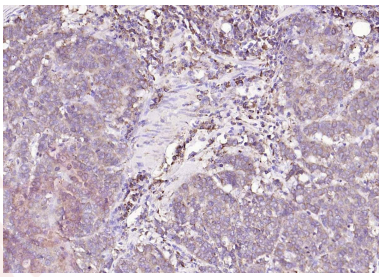


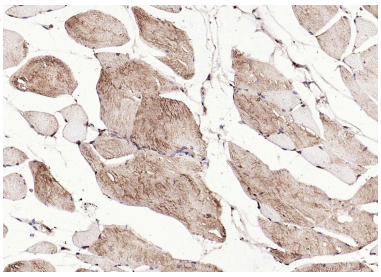


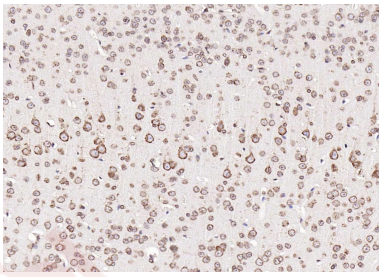


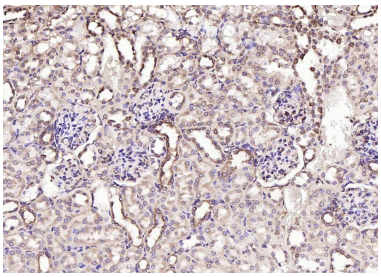


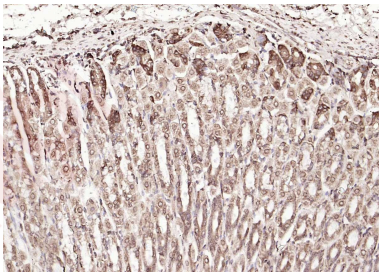


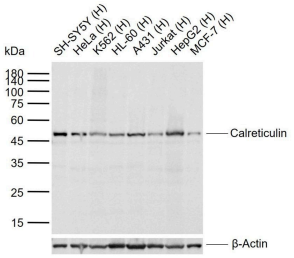


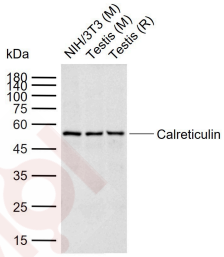












Application: IF,IHC-Fr,IHC-P,WB

Recommended: WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:400-800; IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: human CALR.

Antigen Species: Human

Gene ID: 811

Uniprot ID: P27797

Synonyms: HEL-S-99n;SSA;RO;calreticulin;CRT;cC1qR

Biology Area: ER

Research 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]

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