

BiP/GRP78 Rabbit mAb

Catalog No.: A23453 Recombinant 10 Publications

Basic Information

Observed MW

72 kDa

Calculated MW

72 kDa

Category

Primary antibody

Applications

WB, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat, Pig

Clone/No. number

ARC54734

Background

The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. This protein localizes to the lumen of the endoplasmic reticulum (ER) where it operates as a typical HSP70 chaperone involved in the folding and assembly of proteins in the ER and is a master regulator of ER homeostasis. During cellular stress, as during viral infection or tumorigenesis, this protein interacts with the transmembrane stress sensor proteins PERK (protein kinase R-like endoplasmic reticulum kinase), IRE1 (inositol-requiring kinase 1), and ATF6 (activating transcription factor 6) where it acts as a repressor of the unfolded protein response (UPR) and also plays a role in cellular apoptosis and senescence. Elevated expression and atypical translocation of this protein to the cell surface has been reported in viral infections and some types of cancer cells. At the cell surface this protein may facilitate viral attachment and entry to host cells. This gene is a therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.

Recommended Dilutions

WB 1:6000 - 1:30000**IF/ICC** 1:200 - 1:400**IHC-P** 1:5000 - 1:20000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

3309

Swiss Prot

P11021

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

BiP; GRP78; HEL-S-89n; BiP/GRP78

Contact

 400-999-6126 cn.market@abclonal.com.cn www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

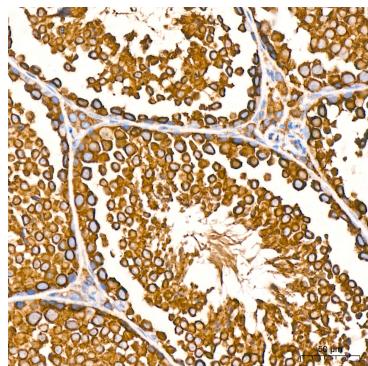
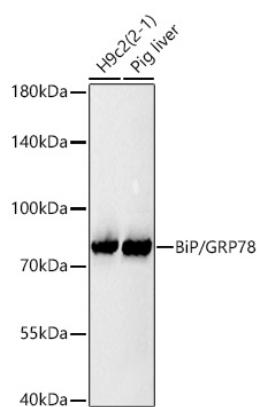
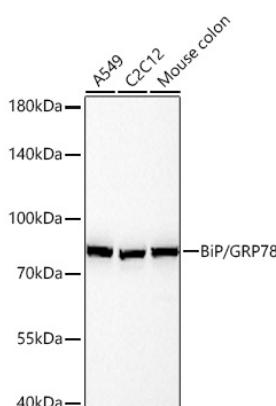
Affinity purification

Storage

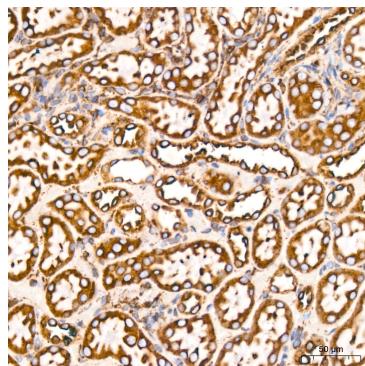
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

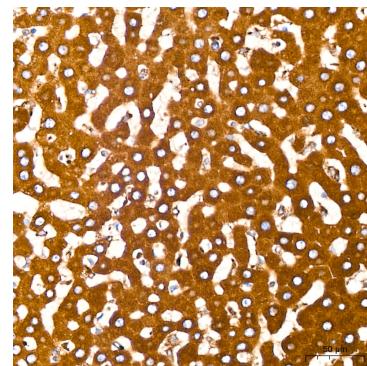
Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using BiP/GRP78 Rabbit mAb (A23453) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

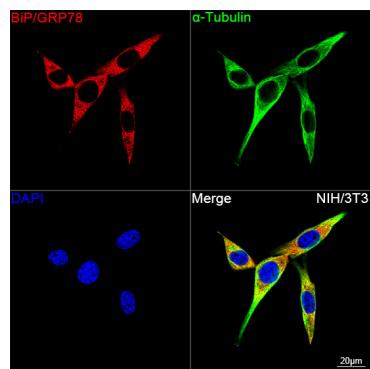


Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using BiP/GRP78 Rabbit mAb (A23453) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using BiP/GRP78 Rabbit mAb (A23453) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Confocal imaging of NIH/3T3 cells using BiP/GRP78 Rabbit mAb (A23453, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.