

BiP Antibody GRP78

Catalog No: tcna5656



Available Sizes

Size: 100ug



Specifications

Application:

WB, IHC-P, IHC-F, ICC

Species Reactivity:

Human, Mouse, Rat

Host Species:

Rabbit

Immunogen / Amino acids:

An amino acid sequence from the C-terminus of human GRP78/BiP (EWLESHQDADIEDFK) was used as the immunogen for this BiP antibody (100% homologous in human, mouse and rat).

Conjugation:

Antigen affinity purified

Clonality:

Polyclonal

Isotype:

Rabbit Ig

Form:

Lyophilized powder

Storage Buffer:

0.5mg/ml if reconstituted with 0.2ml sterile DI water

Recommended Dilution:

Western blot: 0.5-1ug/ml

IHC (Paraffin): 0.5-1ug/ml

IHC (Frozen): 0.5-1ug/ml

Immunocytochemistry: 0.5-1ug/ml The stated application concentrations are suggested starting points. Titration of the BiP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Storage Instruction:

After reconstitution, the BiP antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

SwissProt:

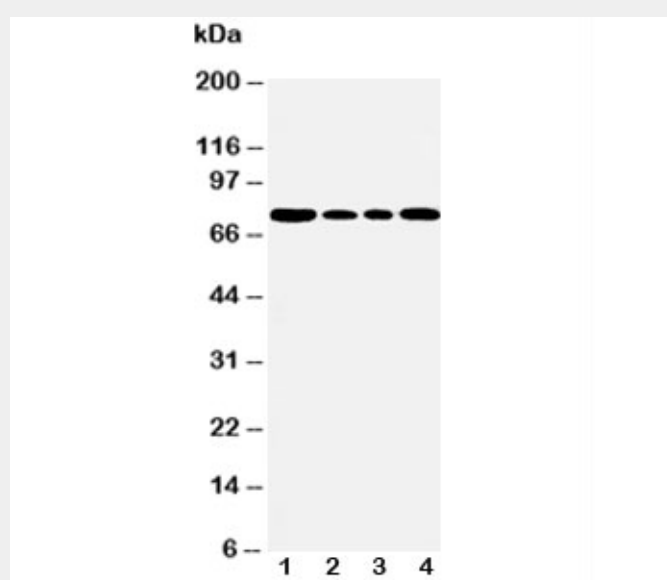
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References

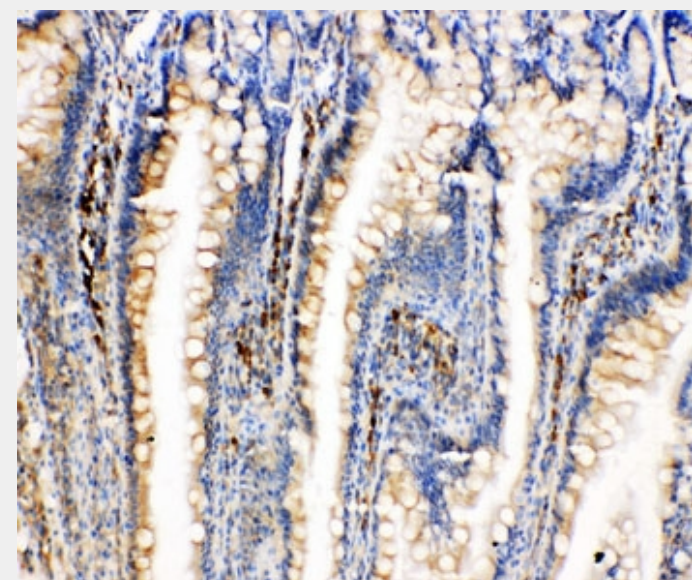
Antigen affinity purified

Product Description

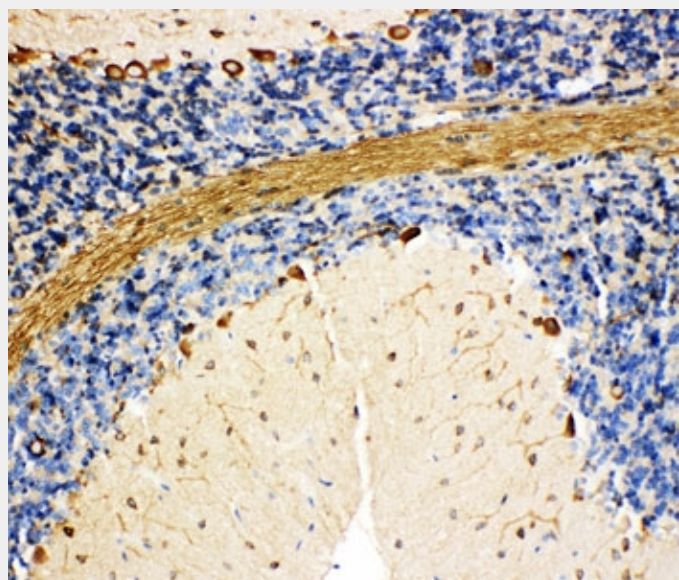
HSPA5 (heat shock 70kDa protein 5) also known as glucose-regulated protein, 78kD (GRP78) or BiP, is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum. BiP is an essential component of the translocation machinery, as well as playing a role in retrograde transport across the ER membrane of aberrant proteins destined for degradation by the proteasome. Shen et al. (2002) concluded that BiP retains ATF6 in the ER by inhibiting its Golgi localization signals and that dissociation of BiP during ER stress allows ATF6 to be transported to the Golgi. The findings of Shen et al. (2002) demonstrated that the protein is a key element in sensing the folding capacity within the ER.



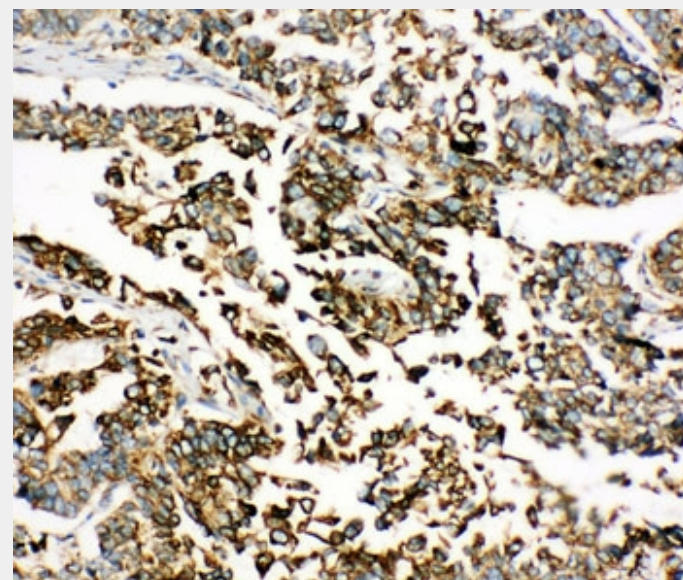
Western blot testing of BiP antibody and Lane 1: rat testis; 2: A549; 3: MCF-7; 4: HeLa cell lysate



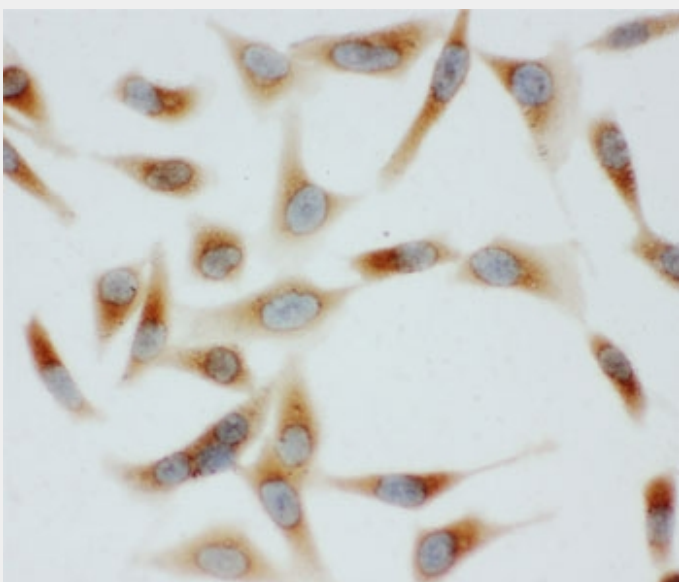
IHC-P: BiP antibody testing of rat intestine tissue



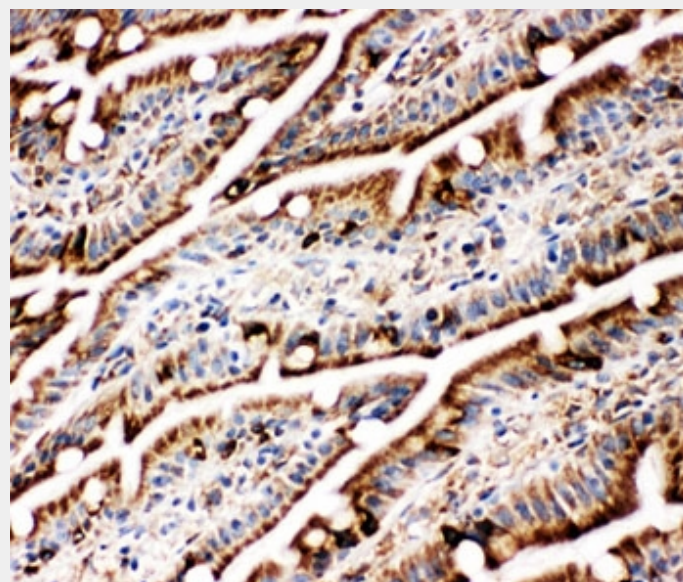
IHC-P: BiP antibody testing of rat cerebellum tissue



IHC-P: BiP antibody testing of human lung cancer tissue



ICC testing of BiP antibody and HeLa cells



IHC-F testing of BiP antibody and rat intestine tissue

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!