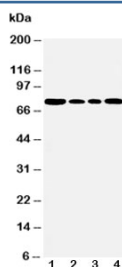


BiP Antibody / GRP78 / HSPA5 (R30913)

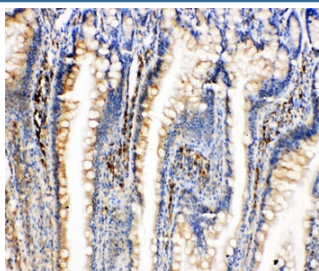
| Catalog No. | Formulation | Size |
|-------------|---|--------|
| R30913 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

Bulk quote request

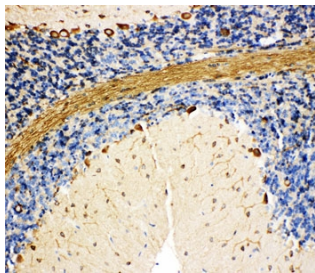
| | |
|---------------------------|---|
| Availability | 1-3 business days |
| Species Reactivity | Human, Mouse, Rat |
| Format | Antigen affinity purified |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit Ig |
| Purity | Antigen affinity |
| Buffer | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| UniProt | P11021 |
| Applications | Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml IHC (Frozen) : 0.5-1ug/ml Immunocytochemistry : 0.5-1ug/ml |
| Limitations | This BiP antibody is available for research use only. |



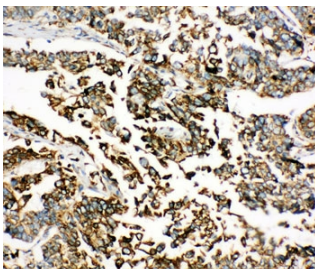
Western blot testing of BiP antibody and Lane 1: rat testis; 2: A549; 3: MCF-7; 4: HeLa cell lysate. Predicted molecular weight: ~73 kDa, but routinely observed at 70-78 kDa.



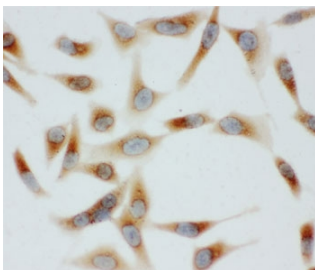
IHC-P: BiP antibody testing of rat intestine tissue



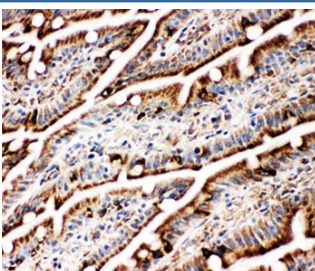
IHC-P: BiP antibody testing of rat cerebellum tissue



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

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.

Application Notes

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.

Immunogen

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).

Storage

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.