

Anti-HSPA5 Polyclonal Antibody

Product Details

| | |
|-------------------|---------------------------------------|
| Ig Type: | IgG |
| Reactivity: | Human,Rat(predicted:Mouse,Pig,Rabbit) |
| Molecular Weight: | Theoretical: 78 kDa. Actual: 74 kDa. |
| Purification: | Protein A purified |

Applications

1. Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-GRP78 Polyclonal Antibody, Unconjugated (TMAB-00898) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

2. Sample:

Lane 1: Spleen (Rat) Lysate at 40 µg

Lane 2: Cerebrum (Rat) Lysate at 40 µg

Lane 3: U-87MG (Human) Cell Lysate at 30 µg

Lane 4: Hela (Human) Cell Lysate at 30 µg

Verified Activity: Lane 5: HepG2 (Human) Cell Lysate at 30 µg

Lane 6: MDA-MB-231 (Human) Cell Lysate at 30 µg

Lane 7: A431 (Human) Cell Lysate at 30 µg

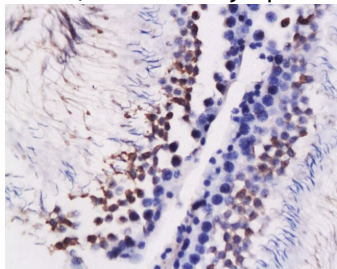
Primary: Anti-GRP78 (TMAB-00898) at 1/1000 dilution

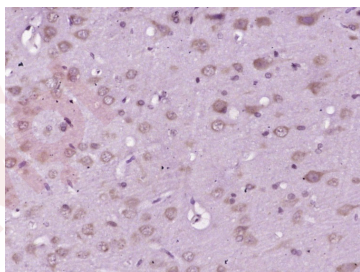
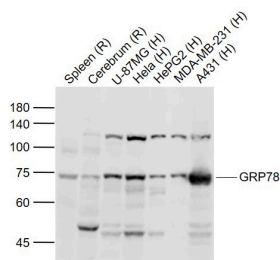
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kDa

Observed band size: 74 kDa

3. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (GRP78) Polyclonal Antibody, Unconjugated (TMAB-00898) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; 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: KLH conjugated synthetic peptide: human GRP78

Antigen Species: Human

Gene ID: 3309

Uniprot ID: P11021

Synonyms: HSP70 family protein 5;Endoplasmic reticulum chaperone BiP;GRP-78;Heat shock protein family A member 5;78 kDa glucose-regulated protein;Heat shock protein 70 family protein 5; HSPA 5;BiP;GRP78;EC 3.6.4.10;Immunoglobulin heavy chain-binding protein;Binding-immunoglobulin protein

Biology Area: ER

Research Background

The 78 kDa glucose regulated protein/BiP (GRP78) belongs to the family of ~70 kDa heat shock proteins (HSP 70). GRP78 is a resident protein of the endoplasmic reticulum (ER) and may associate transiently with a variety of newly synthesized secretory and membrane proteins or permanently with mutant or defective proteins that are incorrectly folded, thus preventing their export from the ER lumen. GRP78 is a highly conserved protein that is essential for cell viability. The highly conserved sequence Lys-Asp-Glu-Leu (KDEL) is present at the C terminus of GRP78 and other resident ER proteins including glucose regulated protein 94 (GRP 94) and protein disulfide isomerase (PDI). The presence of carboxy terminal KDEL appears to be necessary for retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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