

## Anti-HSPA5 Antibody (9M857)

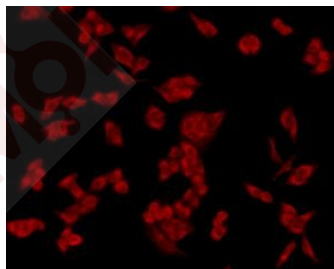
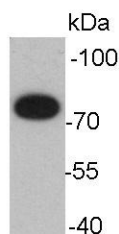
### Product Details

Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 78 kDa.
Clone:	9M857
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis on human spermatozoa lysates using anti- GRP78 mouse mAb.
2. ICC staining GRP78 in Hela cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application:	ICC,IHC,WB
Recommended	WB: 1:5000-10000; ICC: 1:200

### 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:	Peptide
Uniprot ID:	P11021
Synonyms:	Endoplasmic reticulum chaperone BiP;HSPA 5;BiP;78 kDa glucose-regulated protein;EC 3.6.4.10;GRP78;Binding-immunoglobulin protein;HSP70 family protein 5;Immunoglobulin heavy chain-binding protein;GRP-78;Heat shock protein 70 family protein 5;Heat shock protein family A member 5

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### Research Background

Binding immunoglobulin protein (BiP) also known as 78 kDa glucose-regulated protein (GRP-78) or heat shock 70 kDa protein 5 (HSPA5) is a protein that in humans is encoded by the HSPA5 gene. BiP is a HSP70 molecular chaperone located in the lumen of the endoplasmic reticulum (ER) that binds newly synthesized proteins as they are translocated into the ER, and maintains them in a state competent for subsequent folding and oligomerization. BiP is also 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. Like many stress and heat shock proteins, BiP/GRP78 has potent immunological activity when released from the internal environment of the cell into the extracellular space. Specifically, it feeds inflammatory and pro-resolatory signals into immune networks, thus helping to resolve inflammation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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