Data Sheet (Cat.No.TMAC-01726)

Anti-HSPA5 Antibody (2X960)

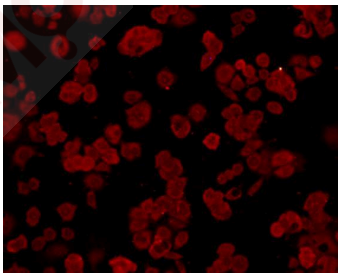
Product Details

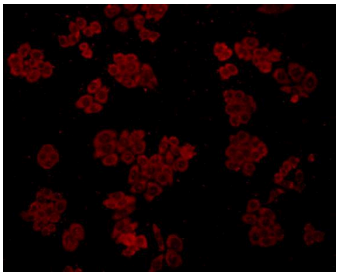
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 78 kDa.
Clone:	2X960
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis on cell lysates using anti- GRP78 mouse mAb.
2. ICC staining GRP78 in MCF-7 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining GRP78 in HepG2 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application:	ICC,IHC,WB
Recommended	WB: 1:2000-5000; ICC: 1:50-100

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: Recombinant Protein

Uniprot ID: P11021

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

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 extracelluar space.specifically, it feeds inflammatory and pro-resolutory signals into immune networks, thus helping to resolve inflammation.

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