

GRP78 BiP Antibody

Catalog No: #48119

Package Size: #48119-1 50ul #48119-2 100ul



Signalway Antibody

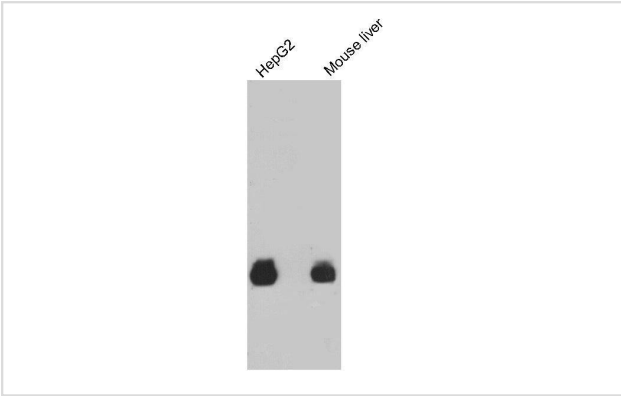
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description	
Product Name	GRP78 BiP Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	C9-9
Purification	ProA affinity purified
Applications	WB, ICC, IHC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	78 kDa glucose regulated protein antibody 78 kDa glucose-regulated protein antibody AL022860 antibody AU019543 antibody BIP antibody D2Wsu141e antibody D2Wsu17e antibody Endoplasmic reticulum luminal Ca(2+)-binding protein grp78 antibody Endoplasmic reticulum luminal Ca2+ binding protein grp78 antibody Epididymis secretory sperm binding protein Li 89n antibody FLJ26106 antibody Glucose Regulated Protein 78kDa antibody GRP 78 antibody GRP-78 antibody GRP78 antibody GRP78_HUMAN antibody Heat shock 70 kDa protein 5 antibody Heat Shock 70kDa Protein 5 antibody Heat shock protein family A (Hsp70) member 5 antibody HEL S 89n antibody Hsce70 antibody HSPA 5 antibody HSPA5 antibody Immunoglobulin Heavy Chain Binding Protein antibody Immunoglobulin heavy chain-binding protein antibody mBiP antibody MIF2 antibody Sez7 antibody
Accession No.	Swiss-Prot#:P11021
Calculated MW	78kDa
Formulation	1*TBS (pH7.4), 0.5%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

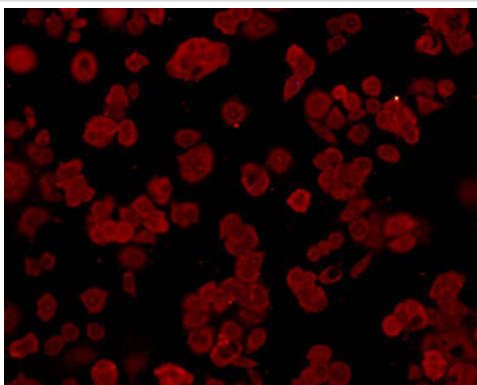
Application Details

WB: 1:2,000-1:5,000ICC: 1:50-1:100

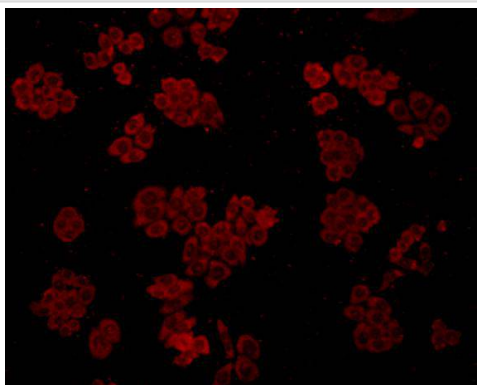
Images



Western blot analysis on cell lysates using anti- GRP78 mouse mAb.



ICC staining GRP78 in MCF-7 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GRP78 in HepG2 cells (red). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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 anti-inflammatory and pro-resolutive signals into immune networks, thus helping to resolve inflammation.

References

Published Papers

el at., Sestrin2 Overexpression Ameliorates Endoplasmic Reticulum Stress-Induced Apoptosis via Inhibiting mTOR Pathway in HepG2 Cells. In Int J Endocrinol on 2022 Dec 10 by Huiling Hu, Zhijun Luo, et al.. PMID:36536875, , (2022)
[PMID:36536875](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.