

GRP78 Antibody

Catalog No: #48584

Package Size: #48584-1 50ul #48584-2 100ul



SAB[®]

Signalway Antibody

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

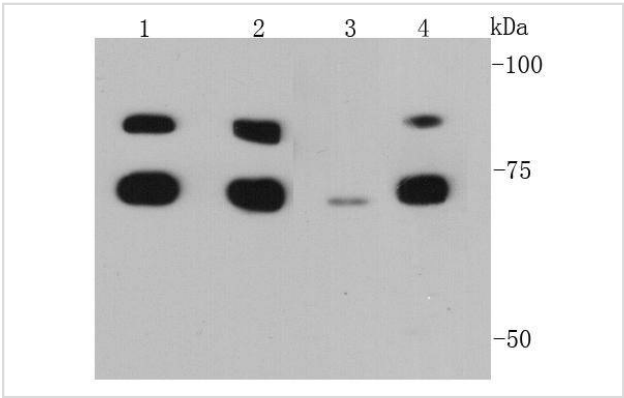
Description

Product Name	GRP78 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
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	72 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

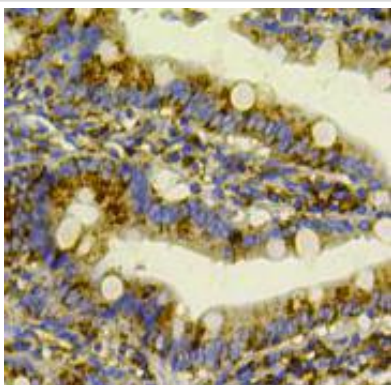
Application Details

WB: 1:2,000 IHC: 1:200 ICC: 1:200 FC: 1:100-1:200

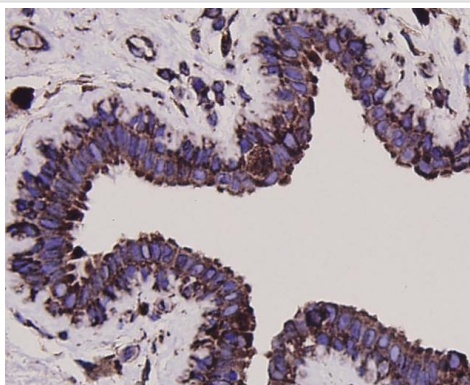
Images



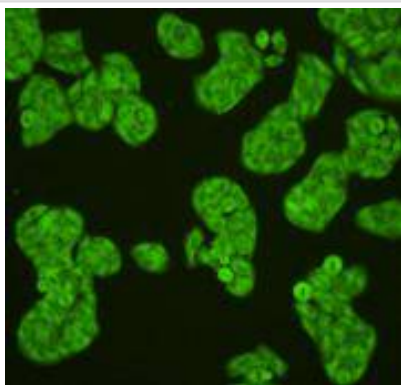
Western blot analysis of GRP78 on different cell lysates using anti-GRP78 antibody at 1/2000 dilution.



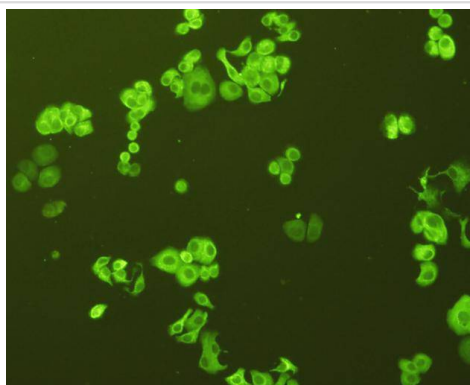
Immunohistochemical analysis of paraffin-embedded rat small intestine tissue using anti-GRP78 antibody. Counter stained with hematoxylin.



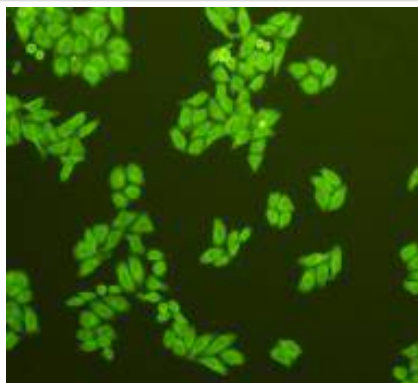
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-GRP78 antibody. Counter stained with hematoxylin.



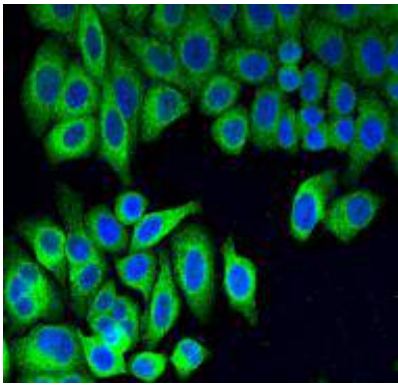
ICC staining GRP78 in Hela cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GRP78 in SK-BR-3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



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



IF staining GRP78 in Hela cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS and counterstained with DAPI in order to highlight the nucleus (blue).

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., Peroxiredoxin 4 deficiency induces accelerated ovarian aging through destroyed proteostasis in granulosa cells. In *Biochim Biophys Acta Mol Basis Dis* on 2024 Oct by Xiaofei Zou, Xiuru Liang et al.. PMID:38971505, , (2024)

[PMID:38971505](#)

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