

Product Datasheet

GRP78 (Bip) Antibody (PerCP) (orb151968)

Catalog Number	orb151968
Category	Antibodies
Description	<p>Rabbit polyclonal to GRP78 (PerCP). GRP78 is a ubiquitously expressed, 78-kDa glucose regulated protein, and is commonly referred to as an immunoglobulin chain binding protein (BiP). The BiP proteins are categorized as stress response proteins because they play an important role in the proper folding and assembly of nascent protein and in the scavenging of misfolded proteins in the endoplasmic reticulum lumen. Translation of BiP is directed by an internal ribosomal entry site (IRES) in the 5' non-translated region of the BiP mRNA. BiP IRES activity increases when cells are heat stressed. GRP78 is also critical for maintenance of cell homeostasis and the prevention of apoptosis. Luo et al. have provided findings that suggest GRP78 is essential for embryonic cell growth and pluripotent cell survival. In terms of diseases, GRP78 has been shown to be a reliable biomarker of hypoglycemia, to serve a neuroprotective function in neurons exposed to glutamate and oxidative stress, and its protein levels are reduced in the brains of Alzheimers patients. Also, the induction of the GRP78 protein that results in severe glucose and oxygen deprivation could possible lead to drug resistance to anti-tumor drugs ..</p>
Target	GRP78 (Bip)
Clonality	Polyclonal
Species/Host	Rabbit
Conjugation	PerCP
Reactivity	Canine, Drosophila, Hamster, Human, Mouse, Rat
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA

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Purification	Protein A Purified
Immunogen	Full length human GRP78 (Bip) his tagged at the N terminus
UniProt ID	P11021
MW	78kDa
Tested applications	ELISA, ICC, IF, IHC, WB
Dilution range	WB (1:2000), ICC/IF (1:100)
Application notes	0.5 µg/ml was sufficient for detection of Grp78 in 10 µg of rat tissue lysate by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Specificity	Detects ~78kDa.
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	3309
NCBI	NP_005338.1
Expiration Date	12 months from date of receipt.

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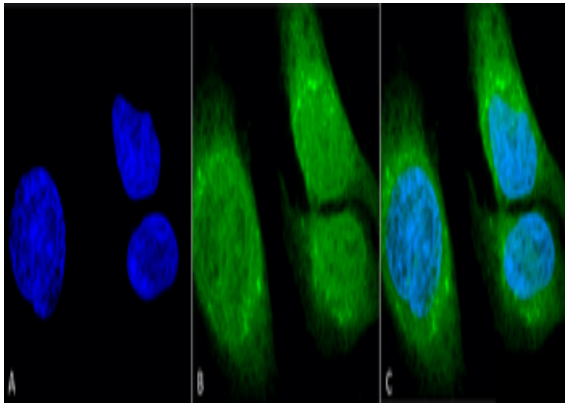
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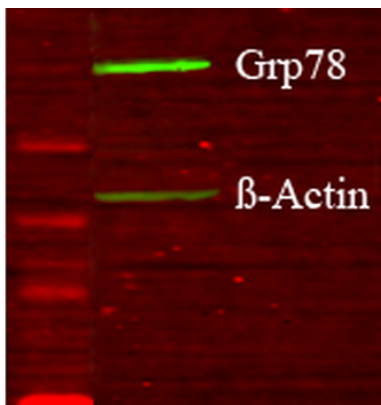
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Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GRP78 (Bip) Polyclonal Antibody. Tissue: Heat Shocked Cervical cancer cell line (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP78 (Bip) Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Nucleus. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-GRP78 (Bip) Antibody. (C) Composite. Heat Shocked at 42°C for 1h.



Western blot analysis of Human Glucose deprived glia cell lysates showing detection of GRP78 protein using Rabbit Anti-GRP78 Polyclonal Antibody. Primary Antibody: Rabbit Anti-GRP78 Polyclonal Antibody at 1:1000.

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