SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-GRP78/FITC Conjugated antibody

Catalog Number: SL1219R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-GRP78/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human GRP78
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Pig)
Background:	background: The 78 kDa glucose regulated protein/BiP (GRP78) belongs to the family of ~70 kDa heat shock proteins (HSP 70). GRP78 is a resident protein of the endoplasmic reticulum (ER) and may associate transiently with a variety of newly synthesized secretory and membrane proteins or permanently with mutant or defective proteins that are incorrectly folded, thus preventing their export from the ER lumen. GRP78 is a highly conserved protein that is essential for cell viability. The highly conserved sequence Lys-Asp-Glu-Leu (KDEL) is present at the C terminus of GRP78 and other resident ER proteins including glucose regulated protein 94 (GRP 94) and protein disulfide isomerase (PDI). The presence of carboxy terminal KDEL appears to be necessary for retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor. **Function:** Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. DISEASE: Note=Autoantigen in rheumatoid arthritis. **Similarity:** Belongs to the heat shock protein 70 family. **Database links:** **Entrez Gene:** 3309 Human **Entrez Gene:** 14828 Mouse **Entrez Gene:** 25617 Rat Omim: 138120 Human **SwissProt:** P11021 Human **SwissProt:** P20029 Mouse **SwissProt:** P06761 Rat **Unigene:** 605502 Human **Unigene:** 743241 Human **Unigene:** 330160 Mouse **Unigene:** 470180 Mouse **Unigene:** 11088 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. glucose-regulated protein 78 is a member of the heat shock protein 70 family，also known as: heat shock protein 70 protein5,As a molecular chaperone, it plays an important role in protein folding and transport processes and in endoplasmic reticulum stress responses. It is highly expressed in various Tumour tissues.

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