



Rabbit Anti-GRP78/FITC Conjugated antibody

SL1219R-FITC

Product Name:	Anti-GRP78/FITC
Chinese Name:	FITC标记的葡萄糖调节蛋白78/热休克蛋白70蛋白5抗体
Alias:	BIP; HSPA5; GRP-78; glucose regulated protein 78; 78 kDa glucose regulated protein; BIP; Endoplasmic reticulum luminal Ca ²⁺ binding protein grp78; FLJ26106; Glucose Regulated Protein 78kDa; GRP 78; GRP78; Heat Shock 70kDa Protein 5; HSPA 5; HSPA-5; HSPA5; Immunoglobulin Heavy Chain Binding Protein; MIF2; GRP78 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	78kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GRP78
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail:	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.

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.

	<p>葡萄糖调节蛋白78是热休克蛋白70家族的成员之一, 又称:热休克蛋白70蛋白5,作为一种分子伴侣在蛋白质的折叠和转运过程及内质网应激反应中发挥重要作用. 它在多种Tumour组织中呈高表达.</p>
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