




## Rabbit Anti-GRP78 antibody

SL1219R

<b>Product Name:</b>	GRP78
<b>Chinese Name:</b>	葡萄糖调节蛋白78/热休克蛋白70蛋白5抗体
<b>Alias:</b>	BIP; HSPA5; GRP-78; glucose regulated protein 78; 78 kDa glucose regulated protein; BIP; Endoplasmic reticulum luminal Ca <sup>2+</sup> 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.
<b>文献引用</b> 	<p><b>Specific References(6)</b>SL1219R has been referenced in 6 publications.</p> <p><b>[IF=3.37]</b>Du, Shaoqing, et al. "SelK is a novel ER stress-regulated protein and protects HepG2 cells from ER stress agent-induced apoptosis." Archives of biochemistry and biophysics 502.2 (2010): 137-143.<b>WB;Human.</b>  <a href="#">PubMed:20692228</a></p> <p><b>[IF=2.71]</b>Wei, W, et al. "Excessive fluoride induces endoplasmic reticulum stress and interferes enamel proteinases secretion." Environmental Toxicology 28 (2013):<b>Human.</b>  <a href="#">PubMed:21626649</a></p> <p><b>[IF=0.00]</b>Du, Weiyang, et al. "The Expression and Significance of Angiotensin II and Glucose Regulated Protein78 in Colorectal Cancer." Cancer Cell Research (2016).<b>IHC-P;Human.</b>  <a href="#">PubMed:0</a></p> <p><b>[IF=3.28]</b>Chen, Li, et al. "Influence of resveratrol on endoplasmic reticulum stress and expression of adipokines in adipose tissues/adipocytes induced by high-calorie diet or palmitic acid." Endocrine (2016): 1-13.<b>WB;Mouse.</b>  <a href="#">PubMed:28070709</a></p>

	<p><b>[IF=0.00]</b> Tian, Jing, Rong Liu, and Quanxin Qu. "Role of endoplasmic reticulum stress on cisplatin resistance in ovarian carcinoma." <i>Oncology Letters</i>. <b>WB;Human</b>.  <a href="#">PubMed:0</a></p> <p><b>[IF=5.96]</b> Xia, Dan, et al. "Knockout of MARCH2 inhibits the growth of HCT116 colon cancer cells by inducing endoplasmic reticulum stress." <i>Cell Death and Disease</i> 8.7 (2017). <b>WB;Human</b>.  <a href="#">PubMed:28749466</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human, Mouse, Rat,
<b>Applications:</b>	WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	78kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GRP78:251-360/654
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>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.</p> <p><b>Function:</b>  Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.</p>

**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.

**SWISS:**

P11021

**Gene ID:**

3309

**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

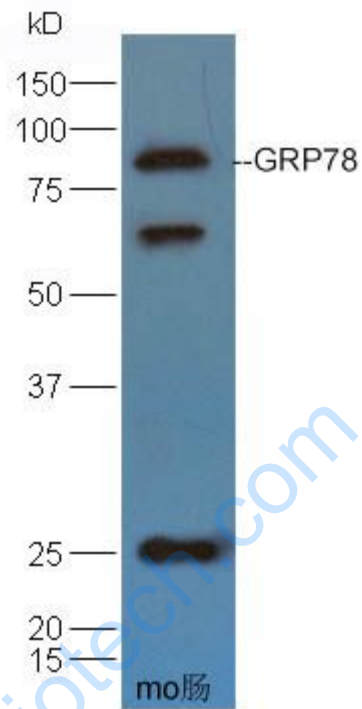
[Unigene: 11088](#)Rat

**Important Note:**

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

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.

Picture:



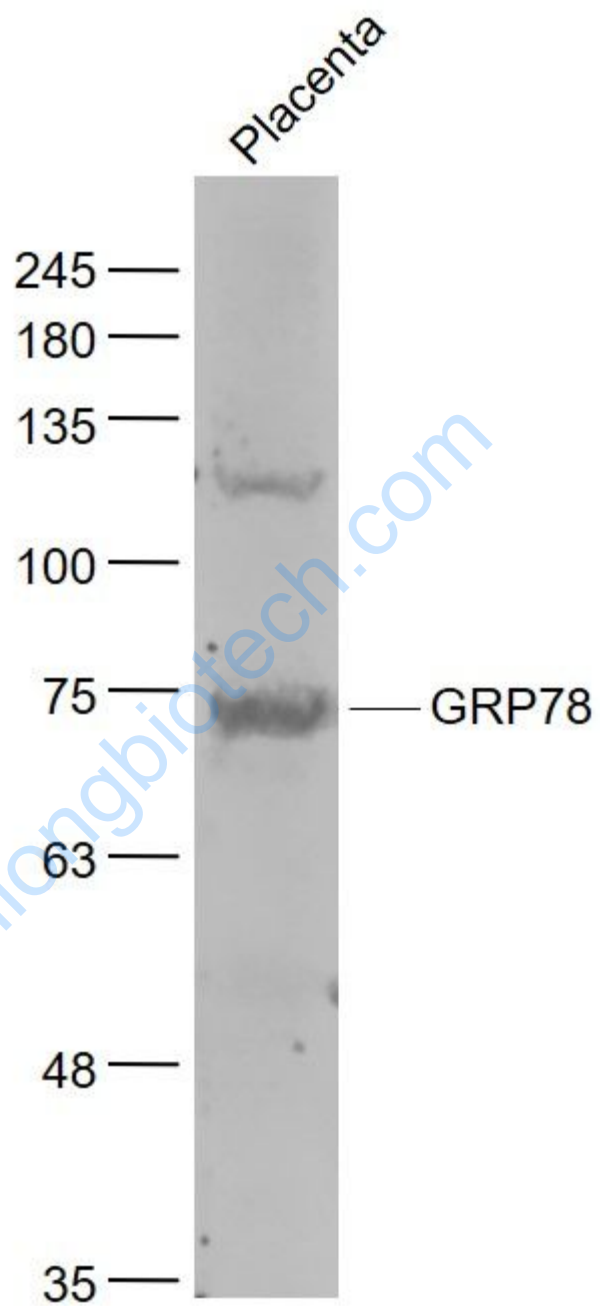
Sample: Intestinal(Mouse) Lysate at 30ug;

Primary: Anti-GRP78 (SL1219R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1: 5000 dilution;

Predicted band size : 78 kD

Observed band size :78 kD



Sample:

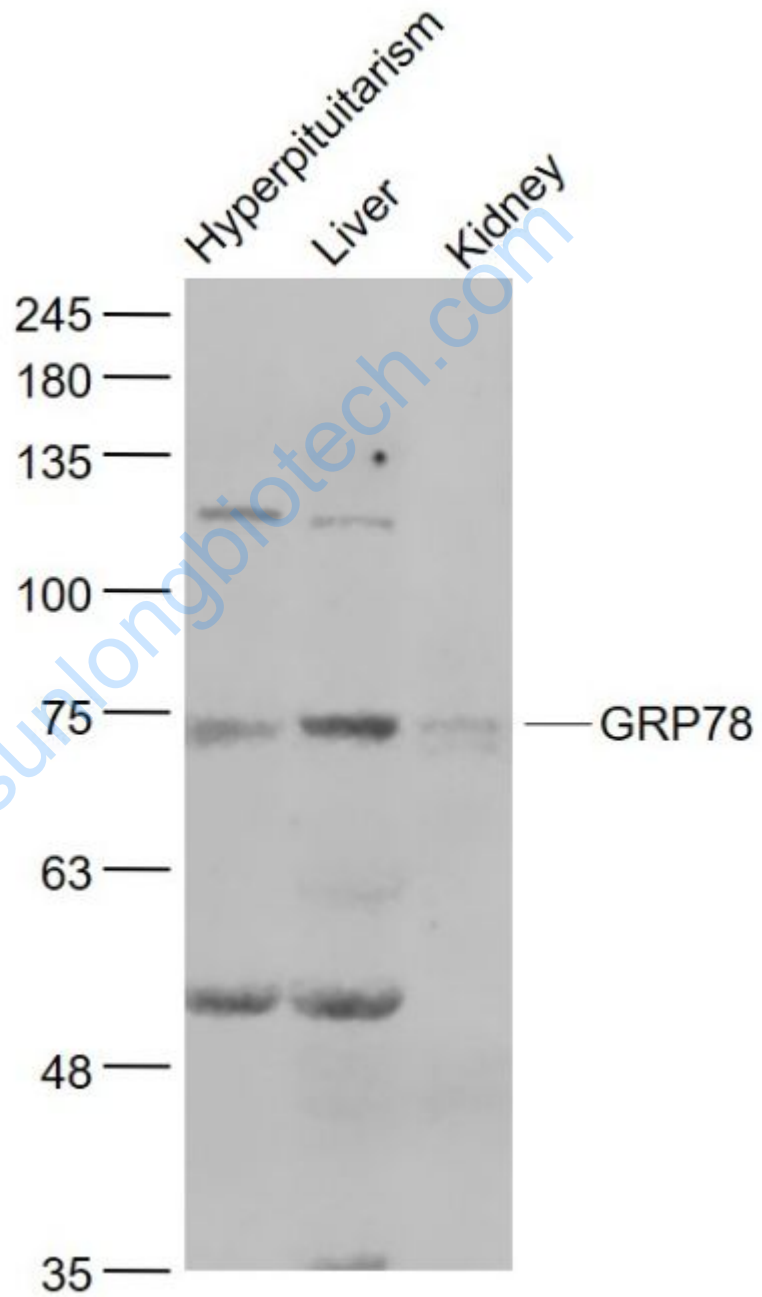
Placenta (Mouse) Lysate at 40 ug

Primary: Anti- GRP78 (SL1219R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

Observed band size: 74 kD



Sample:

Hyperpituitarism (Mouse) Lysate at 40 ug

Liver (Mouse) Lysate at 40 ug

Kidney (Mouse) Lysate at 40 ug

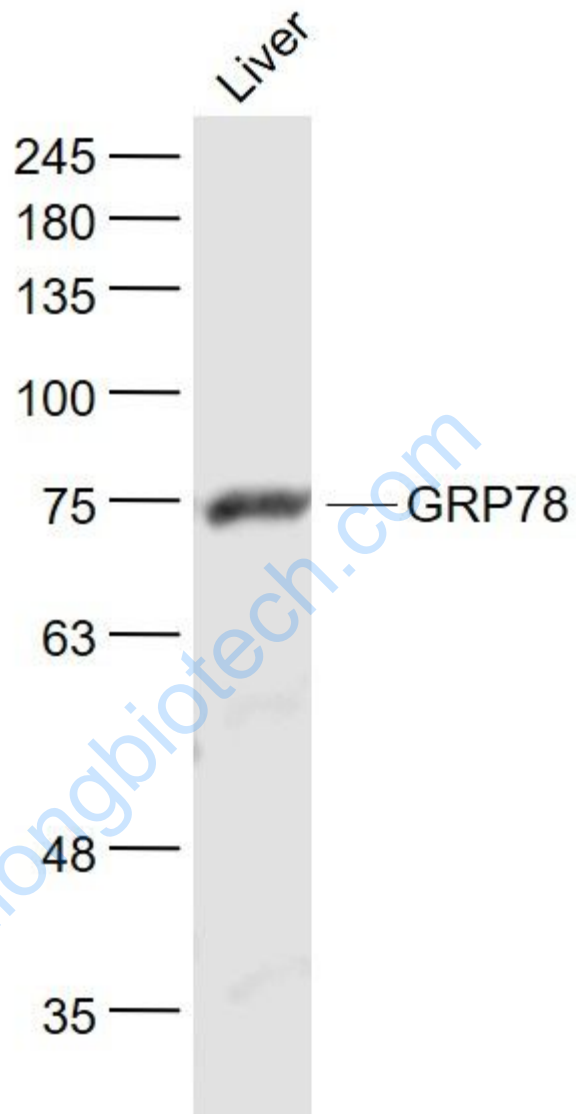
Primary: Anti- GRP78 (SL1219R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

Observed band size: 74 kD

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Sample:

Liver(Rat) Lysate at 40 ug

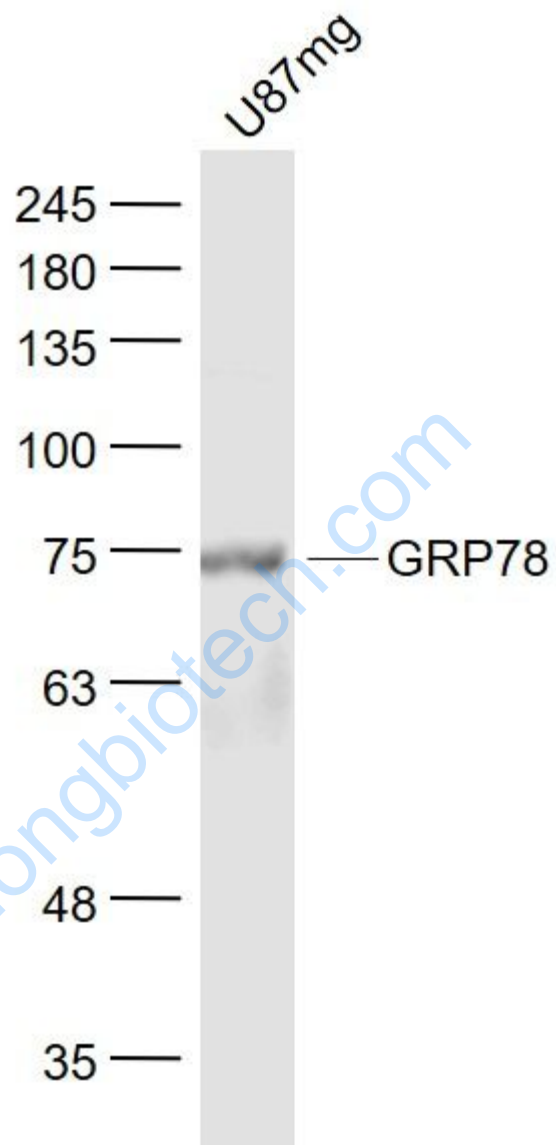
Primary: Anti- GRP78 (SL1219R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

Observed band size: 75 kD





Sample:

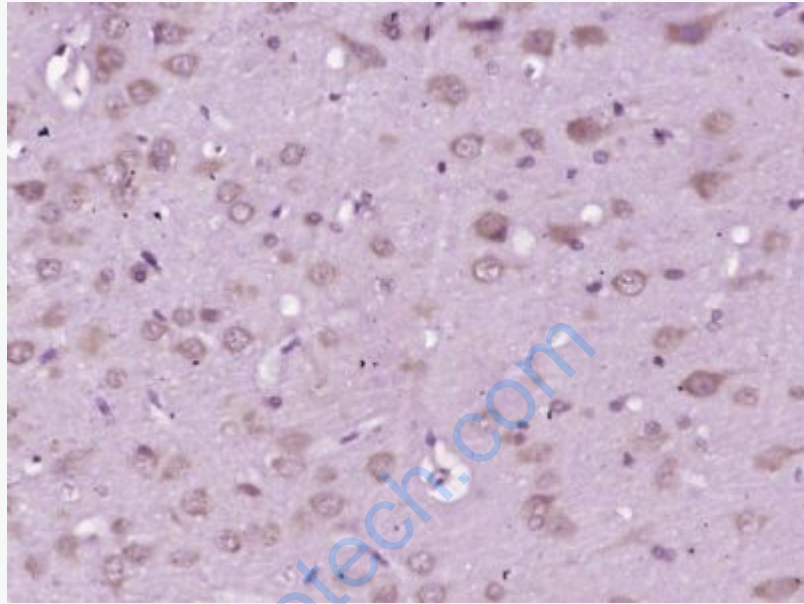
U87mg(Human) Cell Lysate at 30 ug

Primary: Anti- GRP78 (SL1219R) at 1/1000 dilution

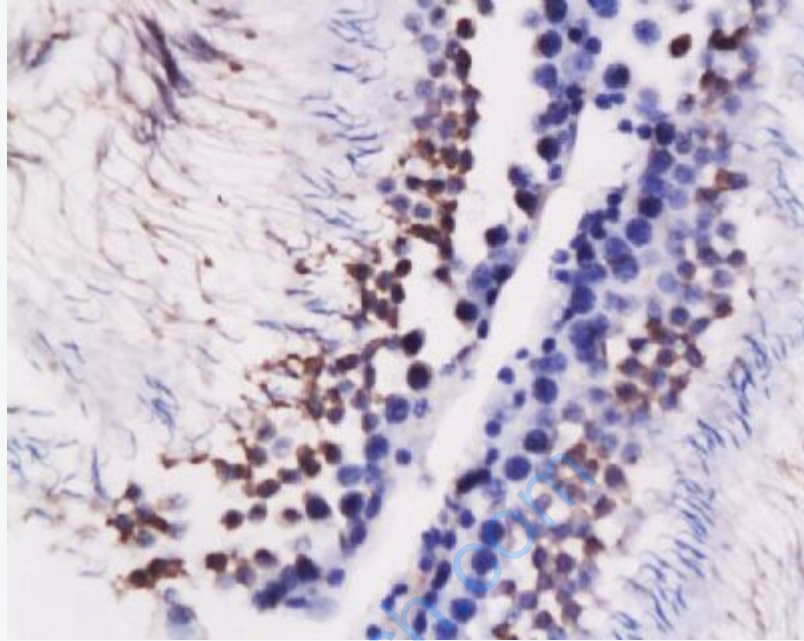
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

Observed band size: 75 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GRP78) Polyclonal Antibody, Unconjugated (SL1219R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-GRP78 Polyclonal Antibody, Unconjugated(SL1219R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining