SunLong Biotech Co.,LTD
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Mouse Anti-GRP78 antibody

SLM-51623M

Product Name	GRP78
Chinese Name	葡萄糖调节蛋白 78 单克隆抗体
Alias	BIP; HSPA5; GRP-78; glucose regulated protein 78; 78 kDa glucose regulated protein; BIP; Endoplasmic reticulum lumenal Ca2+ binding protein grp78; FLJ26106; Glucose Regulated Protein 78kDa; GRP 78; Heat Shock 70kDa Protein 5; HSPA 5; HSPA-5; Immunoglobulin Heavy Chain Binding Protein; MIF2; GRP78_HUMAN.
Research Area	Tumour Cell biology
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	D12H2
React Species	Human, Mouse, Rat,
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	78kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human HSPA5 between 420-654 amino acids.
Lsotype	IgG1,k
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

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.

Similarity:
Belongs to the heat shock protein 70 family.

SWISS:
P11021

Gene ID:
3309

Database links:

Entrez Gene: 3309 Human

SwissProt: P11021 Human

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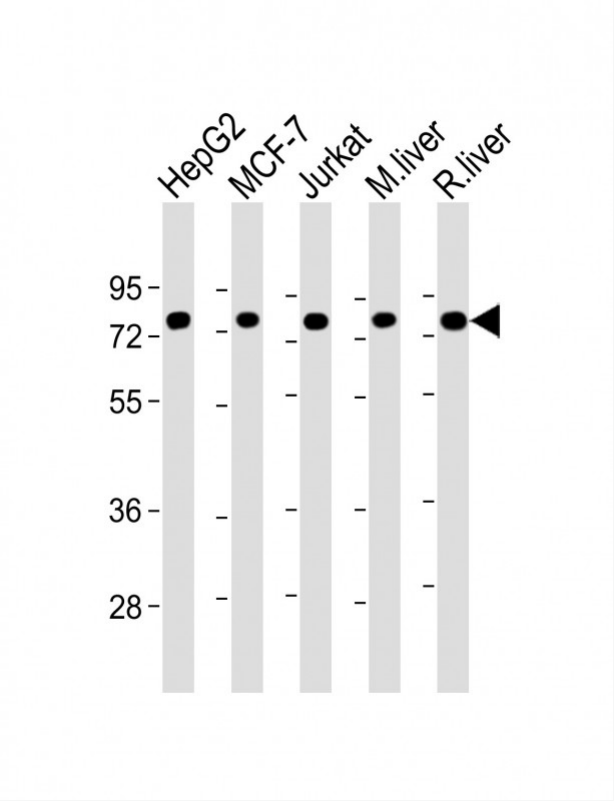
Product Picture



Sample:

Lane 1: HepG2 cell lysates

Lane 2: MCF-7 cell lysates

Lane 3: Jurkat cell lysates

Lane 4: Mouse liver tissue lysates

Lane 5: Rat liver tissue lysates

Primary: Anti-GRP78 (SLM-51623M) at 1/20000 dilution

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

Predicted band size: 78 kD

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Observed band size: 78 kD