

产品名称: GRP78 BiP (11J12) Rabbit Monoclonal Antibody
产品货号: AMRe11793



产品概述 (Summary)

产品名称 (Production Name)	GRP78 BiP (11J12) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,FC,IF-P
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	HSPA5
别名 (Alternative Names)	GRP-78; GRP78; BIP; MIF2; HSPA5
基因 ID (Gene ID)	3309.0
蛋白 ID (SwissProt ID)	P11021.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:5000,IHC 1:100-1:500,FC 1:100-1:200,IF-P 1:100-1:500
蛋白分子量 (Molecular Weight)	72kDa

研究背景 (Background)

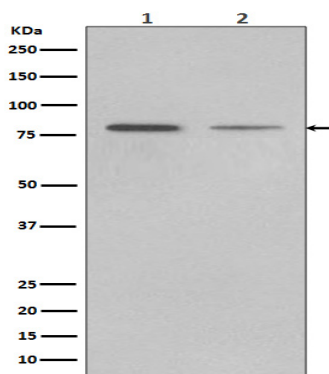
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When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) (PubMed: [8020977](http://www.ncbi.nlm.nih.gov/pubmed/8020977)) pointed out that one of these, GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). Endoplasmic reticulum chaperone that plays a key role in protein folding and quality control in the endoplasmic reticulum lumen (PubMed: [2294010](http://www.ncbi.nlm.nih.gov/pubmed/2294010), PubMed: [23769672](http://www.ncbi.nlm.nih.gov/pubmed/23769672), PubMed: [23990668](http://www.ncbi.nlm.nih.gov/pubmed/23990668), PubMed: [28332555](http://www.ncbi.nlm.nih.gov/pubmed/28332555)). Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10/ERdj5, probably to facilitate the release of DNAJC10/ERdj5 from its substrate (By similarity). Acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (PubMed: [1550958](http://www.ncbi.nlm.nih.gov/pubmed/1550958), PubMed: [19538957](http://www.ncbi.nlm.nih.gov/pubmed/19538957)). In the unstressed endoplasmic reticulum, recruited by DNAJB9/ERdj4 to the luminal region of ERN1/IRE1, leading to disrupt the dimerization of ERN1/IRE1, thereby inactivating ERN1/IRE1 (By similarity). Accumulation of misfolded protein in the endoplasmic reticulum causes release of HSPA5/BiP from ERN1/IRE1, allowing homodimerization and subsequent activation of ERN1/IRE1 (By similarity). Plays an auxiliary role in post-translational transport of small presecretory proteins across endoplasmic reticulum (ER). May function as an allosteric modulator for SEC61 channel-forming translocon complex, likely cooperating with SEC62 to enable the productive insertion of these precursors into SEC61 channel. Appears to specifically regulate translocation of precursors having inhibitory residues in their mature region that weaken channel gating. May also play a role in apoptosis and cell proliferation (PubMed: [26045166](http://www.ncbi.nlm.nih.gov/pubmed/26045166)).

研究领域 (Research Area)

Tags & Cell Markers

图片 (Image Data)



Western blot analysis of GRP78 BiP expression in (1) LnCaP cell lysate; (2) HepG2 cell lysate.

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注意事项 (Note)

For research use only .