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**Product Name: GRP78 BiP Mouse Monoclonal Antibody****Catalog #: AMM85041**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC
<b>Reactivity</b>	Human,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide,0.5%protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,ICC 1:50-1:200
<b>Molecular Weight</b>	Calculated MW: 72 kDa; Observed MW: 78 kDa

**Antigen Information**

<b>Gene Name</b>	GRP78 BiP HSPA5; GRP78; 78 kDa glucose-regulated protein; GRP-78; Endoplasmic reticulum luminal
<b>Alternative Names</b>	Ca(2+)-binding protein grp78; Heat shock 70 kDa protein 5; Immunoglobulin heavy chain-binding protein; BiP
<b>Gene ID</b>	3309.0
<b>SwissProt ID</b>	P11021
<b>Immunogen</b>	Purified recombinant human BiP/GRP78 (C-terminus) protein fragments expressed in E.coli.

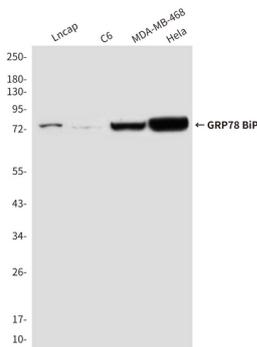
**Background**

When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins

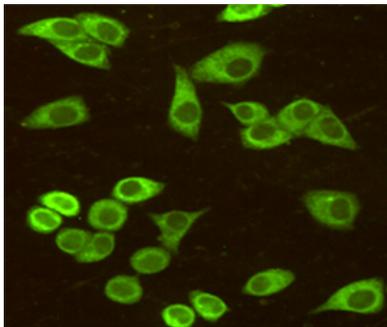
(GRPs), is markedly increased. Hendershot et al. (1994) (PubMed 8020977) pointed out that one of these, GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER).

## Research Area

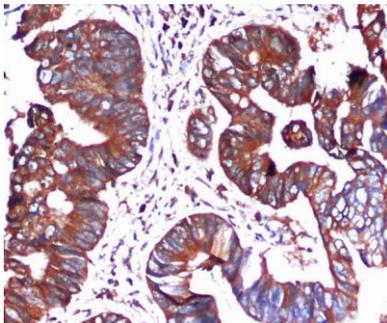
## Image Data



Western blot analysis of BiP/GRP78 (Cterminus) in HeLa, C6, Lncap and MDA-MB-468 lysates using BiP/GRP78 (Cterminus) antibody.



Immunocytochemistry analysis of GRP78 BiP in HeLa using BiP/GRP78 (Cterminus) antibody.



Immunohistochemistry analysis of paraffin-embedded Colorectal cancer using BiP/GRP78 (Cterminus) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.