

Product datasheet for TA346972

GRP78 (HSPA5) Mouse Monoclonal Antibody [Clone ID: 9E4-2A7-H6]

Product data:

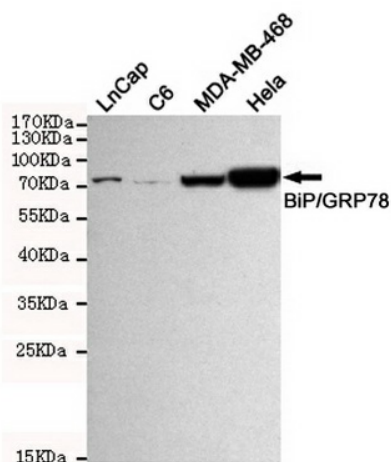
Product Type:	Primary Antibodies
Clone Name:	9E4-2A7-H6
Applications:	IF, IHC, WB
Recommend Dilution:	WB: 1:1000, IF: 1:50
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for HSPA5 antibody: purified recombinant human BiP/GRP78 (C-terminus) protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Purification:	Affinity purified
Predicted Protein Size:	78 kDa
Gene Name:	heat shock protein family A (Hsp70) member 5
Database Link:	NP_005338 Entrez Gene 25617 Rat Entrez Gene 3309 Human
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.
Synonyms:	BIP; GRP78; HEL-S-89n; MIF2
Protein Families:	Druggable Genome



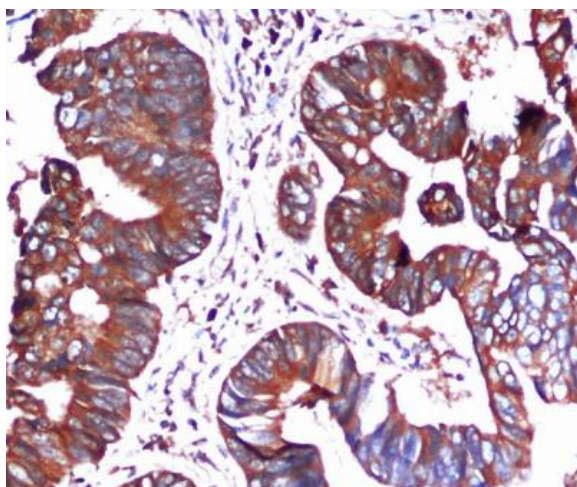
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Protein Pathways: Antigen processing and presentation, Prion diseases

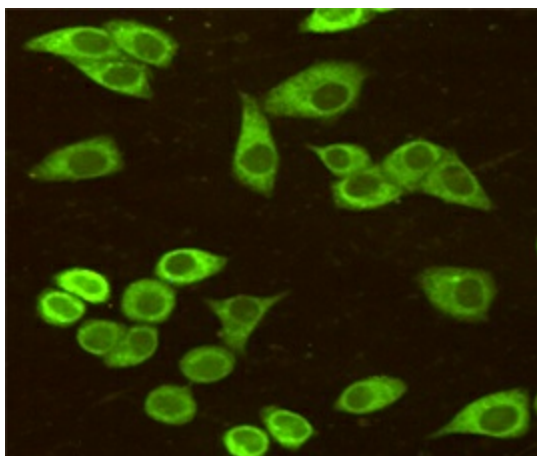
Product images:



Western blot detection of BiP/GRP78 (C-terminus) in HeLa, C6, LnCap and MDA-MB-468 cell lysates using BiP/GRP78 (C-terminus) mouse mAb (1:1000 diluted). Predicted band size: 72KDa. Observed band size: 78KDa.



Immunohistochemical analysis of paraffin-embedded Colorectal cancer using BiP/GRP78 (C-terminus) Mouse mAb (1/100 dilution). Antigen retrieval was performed by pressure cooking in citrate buffer (pH 6.0).



Immunocytochemistry staining of HeLa cells fixed with 4% Paraformaldehyde and using anti-BiP/GRP78 (C-terminus) mouse mAb (dilution 1:50).