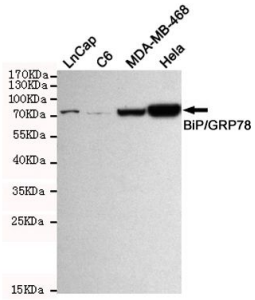
BiP/GRP78 (C-term)

Mouse monoclonal Antibody

#53561

Catalog Number: 53561
Amount: 100μg/100μl
Swiss-Prot No. :P11021
Gene name:hspa5
Gene id:3309
Clone Number： 9E4-2A7-H6
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human BiP/GRP78(C-term) protein fragments expressed in E.coli.
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of BiP/GRP78(C-term) and does not corss-react with related proteins
Reactivity: Human,Rat
Applications: Predicted MW: 78kd WB: 1:1000 ICC:1:50



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.

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.