

Product datasheet for TA346972S

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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

Recommended 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 Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 78 kDa

Gene Name: heat shock protein family A (Hsp70) member 5

Database Link: NP 005338

Entrez Gene 25617 RatEntrez Gene 3309 Human

P11021



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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

Protein Pathways: Antigen processing and presentation, Prion diseases