

Anti-Grp94 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11097 (clone 9G10)

Size: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Glucose-regulated protein 94 (Grp94) is an endoplasmic reticulum luminal stress protein which belongs to the Hsp90 family of molecular chaperones. The sequence of Grp94 includes the COOH-terminal tetrapeptide Lys-Asp-Glu-Leu (KDEL) which is a signal sequence that causes proteins to be retained in the pre-Golgi compartments. Expression of Grp94 is up-regulated by stress conditions such as glucose starvation and heat shock, and it functions in intracellular trafficking of peptides from the extracellular space to the MHC class I antigen processing pathway of antigen-presenting cells.

SPECIFICATION SUMMARY

Antigen: Purified Grp94 isolated from chicken oviducts.

Host Species: Rat

Antibody Class: IgG2a

Preservatives: None. Available on request.

SPECIFICITY

This antibody recognizes an ~98 kDa protein corresponding to the predicted molecular mass of Grp94 on SDS-PAGE immunoblots in human, mouse, rat, rabbit, monkey, hamster, guinea pig, dog, bovine, sheep, pig, chicken and *Xenopus*.

APPLICATIONS

Immunoblotting: use at 0.5-1ug/ml. A band of ~98 kDa is detected.

Immunohistochemistry: use at 2-30ug/ml.

Immunoprecipitation: 10ug/ml.

These are recommended concentrations.

User should determine optimal concentrations for their application.

Positive control: HeLa cell lysate.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.