

Glucose-Regulated Protein 94 (Grp94) / gp96 Ab-1 (Clone 9G10.F8.2)

Rat Monoclonal Antibody

Cat. #RT-102-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)**Cat. #RT-102-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #RT-102-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Biotin-Labeled Ab with BSA and Azide)**Cat. #RT-102-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)**Cat. #RT-102-PCS (5 Slides)** (Positive Control for Histology)**Cat. #RT-102-PCL (0.1ml)** (Positive Control for Western Blot)**Please note this data sheet has been changed effective December 6, 2011**

Description: Grp's (Glucose-Regulated Proteins) are a class of proteins synthesized in cells in response to glucose starvation. Glucose-regulated protein 94 (grp94) or tumor rejection antigen (gp96) shows a high degree of sequence homology with the heat shock protein 90 (hsp90). Grp94 has been briefly studied as a prognostic factor in breast cancer.

Mol. Wt. of Antigen: 94kDa**Epitope:** Not determined

Species Reactivity: Human, Monkey, Horse, Cow, Sheep, Pig, Dog, Rabbit, Rat, Mouse, Hamster, Guinea pig, Chicken, and *Xenopus*. Others-not known.

Clone Designation: 9G10.F8.2**Ig Isotype:** IgG_{2a}

Immunogen: Purified glucose regulated protein 94 (grp94) from chicken oviducts.

Applications and Suggested Dilutions:

- Immunoprecipitation (Native only)
(Use Protein G) (Ab 2µg/mg protein lysate)
- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
(Ab 1-2µg/ml for 30 min at RT)
- * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: SKBR-3 cells. Tonsil and Breast carcinomas.

Cellular Localization: Cytoplasmic and nuclear

Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Key References:

1. Edwards D P, et al. (1984) *Biochemistry*, 23:4427.
2. Kuznetsov G, et al. (1994) *J Biol Chem*, 269:22990-22995.

Limitations and Warranty:

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Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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