

**Heat Shock Protein 90 $\beta$  / hsp90 $\beta$  (also known as hsp84) Ab-1**

Rabbit Polyclonal Antibody

**Cat. #RB-118-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml)** (Purified Ab with BSA and Azide)**Cat. #RB-118-P1ABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #RB-118-PCL (0.1ml)** (Positive Control for Western Blot)**Please note this data sheet has been changed effective December 6, 2011**

**Description:** Cells respond to heat and chemical stress by inducing the synthesis of a group of proteins referred to as heat shock proteins. HSP90 is present in cells at high levels in the cytoplasm and is composed of two separate gene products, HSP90 $\alpha$  and HSP90 $\beta$ .

**Comments:** Ab-1 does not cross react with HSP90 $\alpha$  (also known as HSP86). Recently, a cocktail of HSP90 $\alpha$  and HSP90 $\beta$  PAb's was shown useful in identifying node-negative breast cancer patients at higher risk of tumor recurrence.

**Mol. Wt. of Antigen:** 84kDa**Epitope:** aa 2-13**Species Reactivity:** Human, Mouse, and Rat. Others-not known.**Immunogen:** A synthetic peptide corresponding to aa 2-13 (PEEVHHGEEVE-Cys) from the N-terminus end of mouse heat shock protein 90 $\beta$ **Applications and Suggested Dilutions:**

- Immunoprecipitation (Native and denatured) (Use Protein A) (Ab 10 $\mu$ g/mg protein lysate)
- Western Blotting (Ab 5-10 $\mu$ g/ml for 2hrs at RT)

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

**Positive Control:** MAD109 cells**Cellular Localization:** Cytoplasmic and nuclear**Supplied As:**

Total IgG purified from rabbit anti-serum by Protein A chromatography. Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sod. azide. Also available without BSA and azide at 1mg/ml

**Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8 $^{\circ}$ C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0 $^{\circ}$ C.

**Key References:**

1. Perdeu GH; et al. Exp Cell Res, 1993, 209(2):350-6.

**Limitations and Warranty:**

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**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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