

Heat Shock Protein 90 α / hsp90 α (also known as hsp86) Ab-1

Rabbit Polyclonal Antibody

Cat. #RB-119-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml) (Purified Ab with BSA and Azide)**Cat. #RB-119-P1ABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #RB-119-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)**Cat. #RB-119-PCS (5 Slides)** (Positive Control for Histology)**Cat. #RB-119-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 α and HSP90 β .

Comments: Ab-1 weakly cross reacts with hsp90 β /hsp84.

Mol. Wt. of Antigen: 86kDa

Epitope: aa 2-12

Species Reactivity: Human, Mouse, and Rat. Others-not known.

Immunogen: A synthetic 11-mer peptide, corresponding to aa 2-12 (PEETQTQDQPM-Cys) from the N-terminus end of mouse heat shock protein 90 α (hsp90 α).

Applications and Suggested Dilutions:

- Immunofluorescence
- Immunoprecipitation (Native verified)
(Use Protein A) (Ab 10 μ g/mg protein lysate)
- Western Blotting (Ab 5-10 μ g/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin)
(Ab 1:50-100 for 20 min at RT using UltraVision Detection LP Systems)
- * [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: LS174T cells, MAD109 cells or breast carcinoma

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:

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, **or**

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

Key References:

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

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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