Anti-Hsp90 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11104 (clone AC-16)
Size: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Hsp90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. It participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of chaperone complexes. Hsp90 is relatively abundant in unstressed cells of most prokaryotic and eukaryotic systems and can be induced by heat shock in some systems. It exists in a dimeric form and has been observed to bind to several other cellular proteins such as retrovirus kinases, steroid receptors, hemeregulated protein kinase, actin, and tubulin. When bound to ATP, Hsp 90 interacts with co-chaperones cdc37, p23, and various immunophilin-like proteins, forming complexes that stabilize and protect target proteins from proteasomal degradation.

SPECIFICATION SUMMARY

Antigen: Hsp90 purified from the water mold *Achlya ambisexualis*.
Host Species: Mouse
Antibody Class: IgG2b
Preservatives: 0.09% sodium azide
Other additives: 50% glycerol

SPECIFICITY

This antibody is reactive with both the constitutive and the inducible forms of human, mouse, rat, rabbit, chicken, Sf9 cell, *Achlya*, and wheat germ Hsp90. However, it does not bind to the native form of Hsp90 and does not recognize *E. coli* and yeast Hsp90.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of ~88 kDa is detected.
These are recommended concentrations. User should determine optimal concentrations for their application.
Positive control: Heat shocked 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.

QED Bioscience, Inc.
10919 Technology Place, Suite C
San Diego, CA 92127

Toll Free 800.929.2114
Phone 858.675.2405
Fax 858.592.1509
info@qedbio.com