

QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

Anti-Hsp90 α Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11112 (clone 2G5.G3)

Size: 100ug Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

Hsp90 is an abundantly and ubiquitously expressed heat shock protein found in all eukaryotic cells. It exists in two principal forms, α and β , which share 85% sequence homology. Both forms are expressed in the cytosol. Hsp90 α exists primarily as a homodimer while Hsp90 β exists mainly as a monomer. Hsp90 plays a role in folding, assembly, maturation, and stabilization of specific proteins as a key component of a chaperone complex. Most of the Hsp90-regulated proteins that have been identified are involved in cell signaling; kinases, v-Src, Wee1, c-Raf, and p53 are some examples. When bound to ATP, Hsp90 interacts with co-chaperones Cdc37, p23, and various immunophilin-like proteins to form complexes that stabilize and protect target proteins from proteasomal degradation.

SPECIFICATION SUMMARY

Host Species: Mouse

Antigen: Human Hsp90 alpha

Antibody Class: IgG1

Preservatives: None.

SPECIFICITY

This antibody recognizes human, mouse, and rat Hsp90 α . Other species have not been tested. It does not cross-react with Hsp90 β in ELISA.

APPLICATIONS

Immunoblotting: use at 0.5-1ug/ml. A band of ~90 kDa is detected.

ELISA

Immunohistochemistry/ Immunocytochemistry

Immunoprecipitation

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.