

**Hsp90- β Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog # 1492-1

Clone ID: E296 Lot #: C07064
Quantity: 100 μ l
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry IP
Molecular Wt.: 92 kDa
UniProt ID: P08238

Background: The 90-kDa heat shock protein (Hsp90) is a highly conserved and abundant cytosolic homodimeric molecular chaperone (1). Hsp90 is distinguished from other chaperones in that most of its known substrates are signal transduction proteins, non activated steroid hormone receptors, several protooncogenic tyrosine, serine/threonine kinases and actin (2-3). Two isoforms which correspond to the major and minor isoform, (Hsp90- α and Hsp90- β) can be found in nearly equal amount in humans, and operate as part of a multichaperone machinery in the cytosol, which includes Hsp70, peptidyl-prolyl isomerases and other cochaperones (3).

Specificity: A synthetic peptide corresponding to residues in N-terminus of human Hsp90 β was used as immunogen..

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:500
IHC: 1:50
ICC: 1:50
Flow Cytometry: 1:10
IP: 1:40

Background References:

1. Lees-Miller S., Anderson C.W.;
"Two human 90-kDa heat shock proteins are phosphorylated in vivo at conserved serines that are phosphorylated in vitro by casein kinase II."; J. Biol. Chem. 264:2431-2437(1989).
2. Lees-Miller S., Anderson C.W.;
"The human double-stranded DNA-activated protein kinase phosphorylates the 90-kDa heat-shock protein, hsp90 alpha at two NH2-terminal threonine residues."; J. Biol. Chem. 264:17275-17280(1989).
3. Lotz G.P., Lin H., Harst A., Obermann W.M.J.;
"Aha1 binds to the middle domain of Hsp90, contributes to client protein activation, and stimulates the ATPase activity of the molecular chaperone."; J. Biol. Chem. 278:17228-17235(2003).

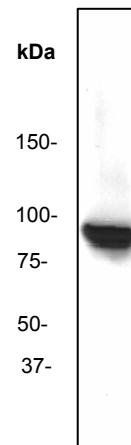


Fig 1. Western blot analysis on HeLa cell lysate using anti-Hsp90 β (N-term) RabMAb (catalog #1492-1), dilution 1:500.

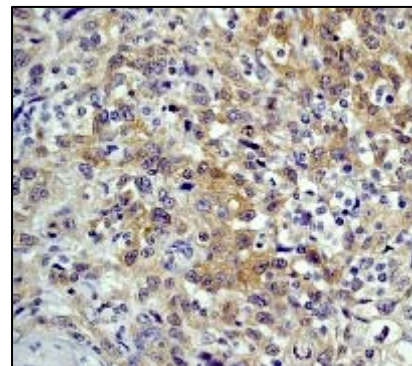


Fig 2. Immunohistochemical analysis of paraffin-embedded urinary bladder carcinoma using anti-Hsp90 β (N-term) RabMAb (catalog #1492-1).

Product QC'd by: _____

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063. For a complete list of protocols and available related products, please visit www.epitomics.com.