



Qty: 1 mL

Mouse anti-HSP90 β

Catalog No. 37-9400

Lot No.

Mouse anti-HSP90 β

FORM

This monoclonal antibody is supplied as a 1 mL aliquot of concentrated tissue culture supernatant containing 0.1% sodium azide.

CLONE: H9010

ISOTYPE: Mouse IgG_{2a}-kappa

IMMUNOGEN

Recombinant human HSP90 β

SPECIFICITY

This antibody reacts specifically with the β isoform of human HSP90 (90-kDa heat shock protein). It may also demonstrate weak reactivity with HSP90 α in certain other species, such as chicken (see 'Reactivity' below). On Western blots, it identifies the target band at ~90 kDa.

REACTIVITY

Reactivity has been confirmed with human HeLa, T47D, A549, and PC-3 cell lysates and rabbit reticulocyte lysates by Western blotting and immunoprecipitation. Reactivity has also been confirmed with purified human HSP90 β and purified chicken HSP90 α by Western blotting and immunoprecipitation. This antibody did not demonstrate reactivity with purified human HSP90 α in Western blots.

Sample	ELISA	Immuno-Precipitation	Western Blotting
Human	ND	+++	+++
Rabbit	ND	++	++
Chicken	ND	++	++
Immunogen	+++	ND	N/A

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 1:1000 to 1:100

Immunoprecipitation: 100 μ l/test

Western Blotting: 1:100

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI 379400

(Rev 10/08) DCC-08-1704

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BACKGROUND

The 90 kDa heat shock protein (HSP90) is a molecular chaperone that keeps a target protein in a folding-competent state. Hsp90 is ubiquitously expressed and abundant, and it participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex.¹⁻⁴ Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase.⁵ In its ATP-bound state, Hsp90 interacts with the co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. Hsp90 is highly conserved between species; mammalian proteins demonstrate 60% amino acid identity with the corresponding yeast and 78% identity with the corresponding *Drosophila* proteins.

Two isoforms of HSP90, α and β , are expressed in the cytosolic compartment.⁶ The amino acid sequence of human HSP90 α is 85% homologous to HSP90 β ,⁷ but HSP90 α exists predominantly as a homodimer while HSP90 β exists mainly as a monomer.⁸

REFERENCES

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RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
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FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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