www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

HSP90B1

Reactivity: Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:92kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human HSP90B1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

HSP90B1;ECGP;GP96;GRP94;TRA1 ;

Catalog #:A0989

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:7184

Isotype: IgG

Swiss Prot:P14625

Purity: Affinity purification

For research use only.

Background:

Secretory proteins are synthesized on polysomes and translocated into the endoplasmic reticulum (ER). Inside ER, these proteins are often modified by disulfide bond formation, amino-linked glycosylation and folding. The ER contains a pool of molecular chaperones, including Grp94, to help proteins fold properly. Grp94 is a glucose-regulated protein (1) with sequence homology to Hsp90 (2). In addition to its role to help some secretory proteins fold to their correct conformation (3), studies suggest that Grp94 derived from cancer cells also induces anti-tumor immune responses in mouse tumor models (4, 5). One reason for this tumor immunogenicity is that Grp94 binds to the peptides from proteins in cancer cells and can therefore present these peptides as tumor antigens (6). Furthermore, Grp94 has also been shown to induce maturation of dendritic cells (7). Taken together, Grp94 functions both as a tumor-specific antigen and as an activator of antigen-presenting cells to elicit immunity to cancers (8).

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