

## HSP 90 $\beta$

Cat.No. 380-1P; control peptide, 100  $\mu$ g peptide (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 $\mu$ g peptide, lyophilized. For reconstitution add 100 $\mu$ l H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 639 to 709 from human HSP90 $\beta$ (UniProt Id: P08238)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	380 103
Remarks	This control peptide consists of the synthetic peptide (aa 693-709 of human HSP 90 $\beta$ ) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Heat shock proteins 90 (HSP 90) are molecular chaperones. Two isoforms ( $\alpha$  and  $\beta$ ) have been described so far. They promote the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. They undergo a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. HSP 90s interact dynamically with various co-chaperones that modulate their substrate recognition, ATPase cycle and chaperone function.

### Selected General References

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