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product AS05 063

HSP90 | Heat shock protein 90

product information

background	**HSP90** is a ubiquitous chaperone involved in numerous cellular processes. Members of this family of proteins play important roles in allowing a selected group of intracellular signaling molecules reach and maintain functionally active conformations.Alternative names: for hsp90 alpha: HSP 86, renal carcinoma antigen NY-REN-38, for hsp90 beta: hsp84
immunogen	KLH-conjugated synthetic peptide chosen from a highly conserved region of hsp90 found in both the alpha P07900 and beta P08238 form of the protein. The target peptide is perfectly conserved in animals.
antibody format	rabbit; polyclonal; serum; lyophilized
quantity	100 µl - for reconstitution add 100 µl of sterile water
storage	store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	Western blot (WB)
additional information	to be added when available

application information

recommended dilution	1: 5 000 with standard ECL (WB)
expected | apparent MW	84-86 kDa
confirmed reactivity	salmon, human
predicted reactivity	fishes, hen, mammals
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	in salmonid fish a cross-reactive band at approximately 40 kDa is observed; antibody will also detect a human recombinant HSP90 protein
selected references	Chandra et al. (2012). Sustained high temperature increases the vitellogenin response to 17 alpha-ethynylestradiol in mummichog (Fundulus heteroclitus). Aquatic toxicology. LeBlanc et al. (2011). Chronic social stress impairs thermal tolerance in the rainbow trout (Oncorhynchus mykiss). J Exp Biol. 15;214:1721-31.

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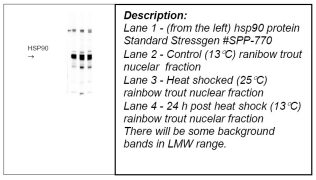
Rendell et al. (2006) Development-dependent differences in intracellular localization of stress proteins (hsps) in rainbow trout, *Oncorhynchus mykiss*, following heat shock. Comparative Biochemistry and Physiology, Part D; 1(2):238 – 252. Osborne et al. (2007) The role of hsp90 in 17alpha-ethynylestradiol-induced endocrine disruption in rainbow trout hepatocytes. Ecotoxicol Environ Saf. 68(1):13-9.

application example - Western blot:



Description:
Lane 1 - (from the left) hsp90 protein Standard Stressgen #SPP-770
Lane 2 - Control (13°C) ranibow trout nucelar fraction
Lane 3 - Heat shocked (25°C) rainbow trout nuclear fraction
Lane 4 - 24 h post heat shock (13°C) rainbow trout nucelar fraction
There will be some background bands in LMW range.