

product **AS05 061**

HSP70 | salmonid heat shock protein 70

product information

background	Heat-shock protein 70 (Hsp70) is the major stress-inducible protein in vertebrates and highly conserved throughout evolution. It plays a role as a molecular chaperone and is important for allowing cells to cope with acute stressor insult, especially those affecting the protein machinery.
immunogen	<u>KLH</u> -conjugated synthetic peptide chosen from the C-terminal of salmonid hsp70. The target peptide is a sequence specific to salmonid hsp70 <u>B5X4Z3</u> .
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	The antibody is very specific for salmonid inducible form - hsp70. It does not cross-react with hsc70. It does not detect hsp70 from other species.

application information

recommended dilution	1:5 000 with standard ECL (WB)
expected apparent MW	70 kDa
confirmed reactivity	rainbow trout (<i>Oncorhynchus mykiss</i>)
predicted reactivity	atlantic salmon (<i>Salmo salar</i>), brook trout (<i>Salvelinus fontinalis</i>)
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	not available at the moment
selected references	<u>LeBlanc</u> et al. (2011). Chronic social stress impairs thermal tolerance in the rainbow trout (<i>Oncorhynchus mykiss</i>). J Exp Biol. 15;214:1721-31. <u>Rendell</u> et al. (2004). Development-dependent differences in intracellular localization of stress proteins (hsps) in rainbow trout, <i>Oncorhynchus mykiss</i> , following heat shock. Comparative Biochem. and Physiol. 1:238-252.