

Product no **AS05 061****HSP70 | salmonid heat shock protein 70****Product information**

Immunogen | KLH-conjugated synthetic peptide chosen from the C-terminal of salmonid hsp70. The target peptide is a sequence specific to salmonid hsp70 UniProt: [B5X4Z3](#).

Host | Rabbit

Clonality | Polyclonal

Purity | Serum

Format | Lyophilized

Quantity | 100 µl

Reconstitution | 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

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 (WB)

Expected | apparent MW | 70 kDa

Confirmed reactivity | Rainbow trout (*Oncorhynchus mykiss*), Brook trout gills (*Salvelinus fontinalis*)

Predicted reactivity | *Salmo salar* (Atlantic salmon)

Not reactive in | No confirmed exceptions from predicted reactivity are currently known

Selected references | [Biela](#) et al. (2020). Evidence of prevalent heat stress in Yukon River Chinook salmon. Canadian J. of Fisheries and Aquatic Science.

[Kelly](#) et al. (2017). Acclimation capacity of the cardiac HSP70 and HSP90 response to thermal stress in lake trout (*Salvelinus namaycush*), a stenothermal ice-age relict. Comp Biochem Physiol B Biochem Mol Biol. 2017 Dec 10. pii: S1096-4959(17)30191-4. doi: 10.1016/j.cbpb.2017.12.002.

[Ricketts](#) et al. (2015). The Effects of Acute Waterborne Exposure to Sublethal Concentrations of Molybdenum on the Stress Response in Rainbow Trout, *Oncorhynchus mykiss*. PLoS One. 2015 Jan 28;10(1):e0115334. doi: 10.1371/journal.pone.0115334. eCollection 2015.

[Templeman](#) et al. (2014). Linking physiological and cellular responses to thermal stress: β-adrenergic blockade reduces the heat shock response in fish. J Comp Physiol B, April 2014.