Product no AS05 061A
HSP70 | Salmonid heat shock protein 70, Affinity purified

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**
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**
Affinity purified serum in PBS, pH 7.4

**Format**
Lyophilized in PBS pH 7.4

**Quantity**
200 µg

**Reconstitution**
For reconstitution add 200 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**
Immunohistochemistry (IHC), Immunoprecipitation (IP), Western blot (WB)

**Related products**
Collection of antibodies to fish related targets

**Secondary antibodies**

**Additional information**
Immunohistochemistry experiments have been done on salmon tissue treated with hydrated autoclaving of formalin fixed sections (unpublished results)

Application information

**Recommended dilution**
5 µg of antibodies in reaction mixture (IP), 1 : 100 (IHC), 1 : 15 000 (WB)

**Expected | apparent MW**
70 kDa

**Confirmed reactivity**
Oncorhynchus mykiss (Rainbow trout), Danio rerio (Zebrafish)

**Predicted reactivity**
Salmo salar (Atlantic salmon), Salvelinus fontinalis (Brook trout)

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

**Additional information**
This antibody is recognizing the inducible Hsp70 in salmon but not the constitutive.

**Selected references**
Gallant et al. (2017). Physiological responses to a short-term, environmentally realistic, acute heat stress in Atlantic salmon, Salmo salar. FACETS.