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Product no AS05 061A

HSP70 | Salmonid heat shock protein 70, Affinity purified

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	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
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 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	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experiments have been done on salmon tissue treated with hydrated autoclaving of formalin fixed sections (unpublished results)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	*Coregonus clupeaformis, Oncorhynchus mykiss, Salmo salar* (Atlantic salmon), *Salvelinus fontinalis* (Brook trout)
Not reactive in	*Gasterosteus aculeatus*
Additional information	This antibody is recognizing the inducible Hsp70 in salmon but not the constitutive
Selected references	Mottola et al. (2020). Comp Biochem Physiol A Mol Integr Physiol. 2020 Feb;240:110629. doi: 10.1016/j.cbpa.2019.110629. Gallant el al. (2017). Physiological responses to a short-term, environmentally realistic, acute heat stress in Atlantic salmon, Salmo salar. FACETS. Lewis et al. (2016). Different Relationship between hsp70 mRNA and hsp70 Levels in the Heat Shock Response of Two Salmonids with Dissimilar Temperature Preference. Front Physiol. 2016 Nov 7;7:511. eCollection 2016. Curie et al. (2008). Adrenergic Stimulation Enhances the Heat Shock Response in Fish. Physiol & Bioch. Zoology 4:414-425.