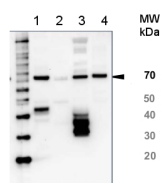


Product no **AS05 083****Anti-HSP70/HSC70 | Heat shock protein 70/Heat shock cognate protein 70 (serum)****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide conserved across all known sequences of HSP70 <a href="#">P08107</a> and HSC70 proteins <a href="#">P11142</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Total IgG. Protein G purified in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	100 µl
<b>Reconstitution</b>	For reconstitution add 100 µl of sterile water
<b>Storage</b>	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.
<b>Additional information</b>	For detection of plant and algal cytoplasmic hsp70 we recommend following product: <a href="#">AS08 371</a> .

**Application information**

<b>Recommended dilution</b>	1 : 1000 (IP), 1 : 1000-1: 5000 (WB)
<b>Expected   apparent MW</b>	70 kDa
<b>Confirmed reactivity</b>	Fish, mammals, fungi: <i>Antrodia infirma</i> , <i>A. sinuosa</i> , <i>A. xantha</i> , <i>Catostomus commersonii</i> , <i>Gloeophyllum protractum</i> , <i>Gloeophyllum sepiarium</i> , <i>G. carbonarium</i> , <i>Junghunia luteoalba</i> , <i>Oligoporus sericiomollis</i> , <i>Phlebia cornea</i>
<b>Predicted reactivity</b>	Bovine, <i>Drosophila melanogaster</i> , Hen, Mouse, Rat
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	This antibody is recognizing both, the inducible and the constitutive Hsp70
<b>Selected references</b>	<a href="#">MacLellan</a> et al. (2015). Chaperone roles for TMAO and HSP70 during hyposmotic stress in the spiny dogfish shark ( <i>Squalus acanthias</i> ). <i>J Comp Physiol B</i> . 2015 Jun 7. <a href="#">Bessemmer</a> et al. (2014). Cardiorespiratory toxicity of environmentally relevant zinc oxide nanoparticles in the freshwater fish <i>Catostomus commersonii</i> . <i>Nanotoxicology</i> . 2014 Nov 27:1-10. <a href="#">Gorovits</a> et al. (2013). Recruitment of the host plant heat shock protein 70 by tomato yellow leaf curl virus coat protein is required for virus infection. <i>PLoS One</i> , July 23;8(7).

**Application example**

10 µg of total protein from (1) killifish muscle, (2) bovine muscle, (3) chicken muscle, (4) rat liver, extracted with Protein Extraction Buffer, PEB ([AS08 300](#)) and separated on 4-12% NuPage (Invitrogen) LDS-PAGE and blotted 1h to PVDF. Blots were blocked in 5 % non-fat milk for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1 : 5000 (in blocking reagent) for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (Agrisera anti-rabbit IgG horse radish peroxidase conjugated, [AS09 602](#)) diluted to 1:25 000 in blocking reagent for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with chemiluminescent detection reagent, according to the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad). Exposure time was 5 min.