

## Data Sheet

# HSP70 (*GEODIA CYDONIUM*)

## ANTIBODY, MONOCLONAL

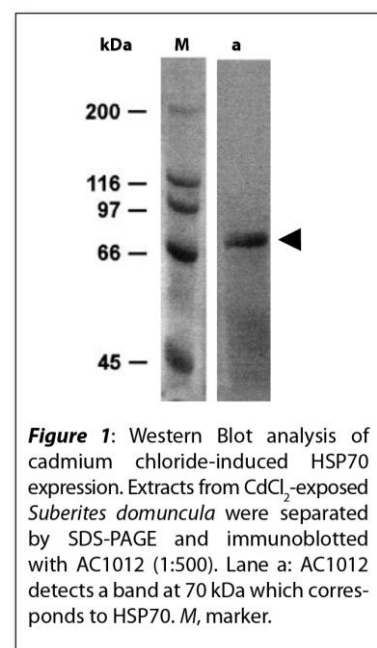
<b>Catalog no.:</b>	AC1012.1 / AC1012.2
<b>Immunogen:</b>	HSP70 from <i>Geodia cydonium</i>
<b>Synonyms:</b>	Heat shock protein 70
<b>Swiss-Prot No:</b>	Q24952
<b>Gene Information:</b>	Gene Name: hsp70
<b>Host:</b>	Mouse Balb/c
<b>Clone no.:</b>	IVF5
<b>Isotype:</b>	IgG <sub>1</sub>
<b>Matrix:</b>	Cell culture supernatant, Protein G purified, 50 mM TRIS pH 7.4
<b>Specificity:</b>	HSP70
<b>Contents:</b>	10 µl / 100 µl (lyophilized) Resuspend in 10 µl / 100 µl aqua bidest.
<b>Known applications:</b>	ELISA (1:5000) <sup>3</sup> , Western Blot (1:500) <sup>2,3</sup> , immunoprecipitation, immunohistochemistry (1:50)

This antibody has not been tested for use in all applications. This does not necessarily exclude its use for non-tested procedures. The stated dilutions are recommendations only. We suggest that the applicant titrates the antibody in his/her system using appropriate negative/positive controls.

<b>Store at:</b>	2-8 °C (lyophilized); -20 °C (dissolved) Repeated thawing and freezing must be avoided
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<b>References:</b>	<ol style="list-style-type: none"> <li>Kozioł C, Kruse M, Wagner-Hülsmann C, Pancer Z, Batel R and Müller WEG (1996). Cloning of the heat-inducible stress protein (hsp70) from the marine sponge <i>Geodia cydonium</i>. <i>Canad Technical Rep Fisheries Aquatic Sci</i> <b>2093</b>: 104-109.</li> <li>Schröder HC, Hassanein HMA, Lauenroth S, Kozioł C, Mohamed TA-AA, Lacorn M, Steinhart H, Batel R and Müller WEG (1999). Induction of DNA strand breaks and expression of HSP70 and GRP78 homolog by cadmium in the marine sponge <i>Suberites domuncula</i>. <i>Arch. Environ. Contam. Toxicol.</i> <b>36</b>: 47-55.</li> <li>Wiens M, Kozioł C, Hassanein HMA, Batel R, Schröder HC and Müller WEG (1998). Induction of gene expression of the chaperones 14-3-3 and HSP70 by PCB118 (2,3',4,4',5-pentachlorobiphenyl) in the marine sponge <i>Geodia cydonium</i>: novel biomarkers for polychlorinated biphenyls. <i>Mar. Ecol. Prog. Ser.</i> <b>165</b>: 247-257.</li> </ol>
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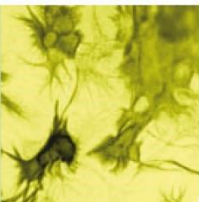
<b>Last updated on:</b>	14 April 2022
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**Figure 1:** Western Blot analysis of cadmium chloride-induced HSP70 expression. Extracts from CdCl<sub>2</sub>-exposed *Suberites domuncula* were separated by SDS-PAGE and immunoblotted with AC1012 (1:500). Lane a: AC1012 detects a band at 70 kDa which corresponds to HSP70. M, marker.



Antibodies



**For research use only**

**Publishing research using AC1012? Please let us know so that we can cite your publication as a reference.**



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