

product **AS08 346**

HSP90-1 | heat shock protein 90-1

product information

background	HSP90-1 (heat shock protein 90-1) is an isoform involved in response to bacterium, arsenic and heat. Synonyms: ATHS83; ATHSP90.1; F6N7.13; F6N7_13; HEAT SHOCK PROTEIN 81-1; HEAT SHOCK PROTEIN 83; HEAT SHOCK PROTEIN 90.1; HSP81-1; HSP81.1; HSP83.
immunogen	full length recombinant Hsp90-1 from <i>Arabidopsis thaliana</i> , UniProt: P27323 , TAIR: AT5G52640
antibody format	rabbit; polyclonal; serum; lyophilized
quantity	50 µl - for reconstitution add 50 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	Western blot (WB)
related products	collection of antibodies to plant HSP proteins
additional information	antibody is recognizing both, heat inducible Hsp90-1 and constitutive isoform Hsp90-2. Both proteins have ca. 85 % similarity.

application information

recommended dilution	1: 3000 with standard ECL (WB)
expected apparent MW	80.6 95 kDa (<i>Arabidopsis thaliana</i>)
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Solanum lycopersicum</i> , <i>Zea mays</i>
predicted reactivity	<i>Glycine max</i> , <i>Hordeum vulgare</i> , <i>Micromonas pulsilla</i> , <i>Nicotiana benthamina</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Ostreococcus lucimarinus</i> , <i>Physcomitrella patens</i> , <i>Populus balsamifera</i> , <i>Ricinus communis</i> , <i>Solanum tuberosum</i> , <i>Sorghum bicolor</i> , <i>Triticum aestivum</i> , <i>Zea mays</i> , <i>Vitis vinifera</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	Tillmann et al. (2014). Hsp90 is involved in the regulation of cytosolic precursor protein abundance in tomato. Mol Plant. 2014 Oct 20. pii: ssu113. Svozil et al. (2014). Protein abundance changes and ubiquitylation targets identified after inhibition of the proteasome with Syringolin A. Mol Cell Proteomics. 2014 Apr 13. Finka et al. (2012). Plasma Membrane Cyclic Nucleotide Gated Calcium Channels Control Land Plant Thermal Sensing and Acquired Thermotolerance. Plant Cell, June 2012.