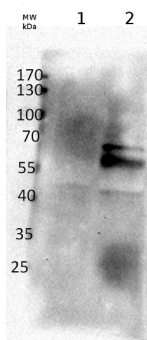


Product no **AS15 2895****Anti-BAM1 | Beta amylase 1 (chloroplastic)****Product information**

Immunogen	The mature length protein of <i>Arabidopsis thaliana</i> BAM1 overexpressed in E.coli, UniProt: Q9LIR6 , TAIR: AT3G23920 , lacking the transit peptide that is cleaved upon entry to the chloroplast. Recombinant protein had an N-terminal S-tag.
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	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 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.

Application information

Recommended dilution	1 : 7500 (WB)
Expected apparent MW	63.7 60.9 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	<i>Beta vulgaris</i> , <i>Brassica napus</i> , <i>Brassica oleracea</i> , <i>Brassica rapa.</i> , <i>Camellia sinensis</i> , <i>Cajanus cajan</i> , <i>Capsella rubella</i> , <i>Citrus clementina</i> , <i>Citrus sinensis</i> , <i>Coffea canephora</i> , <i>Cucumis sativus</i> , <i>Cynara cardunculus var. scolymus</i> , <i>Daucus carota subsp. sativus</i> , <i>Eucalyptus grandis</i> , <i>Eutrema salsugineum</i> , <i>Glycine max</i> , <i>Gossypium arboreum</i> , <i>Hordeum vulgare</i> , <i>Jatropha curcas</i> , <i>Nicotiana tabacum</i> , <i>Phaseolus vulgaris</i> , <i>Poncirus trifoliata</i> , <i>Populus trichocarpa</i> , <i>Prunus persica</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Spinacia oleracea</i> , <i>Theobroma cacao</i> , <i>Vitis vinifera</i>
	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Antibody is recognizing recombinant BAM1 protein of <i>Arabidopsis thaliana</i> .
Selected references	Niu et al. (2024) . Maize multi-omics reveal leaf water status controlling of differential transcriptomes, proteomes and hormones as mechanisms of age-dependent osmotic stress. <i>Stress Biol.</i> 2024 Mar 18;4(1):19. doi: 10.1007/s44154-024-00159-9.



Arabidopsis thaliana leaf extract (5 ug total protein), BAM1 KO plant (1) and BAM3 KO which still has BAM1 protein (2). Extraction buffer (50 mM MOPS pH 7.0, 5 mM EDTA). Added Equal volume of SSB (final concentration: 50 mM Tris-HCl pH 6.8, 2.5% SDS, 15% glycerol, .05% bromophenol blue, 5% beta-mercaptoethanol) and boiled 5 min. Separated on 10% SDS-PAGE and blotted to nitrocellulose, 100V 1hr using tank transfer. 1 hr block 5% NFD, PBST, RT 1 hr with primary antibody at 1 : 7 500 in 5% NFD, PBST, RT Washed with PBST 2x briefly, then 2x for 10 min 1 hr in secondary antibody at 1 : 20 000, PBST, RT Washed with PBST 2x briefly, then 2x for 10 min chemiluminescent detection reagent. Expected BAM3 MW ~64 kDa (usually a doublet).

Courtesy of Dr. Amanda Storm, James Madison University, USA