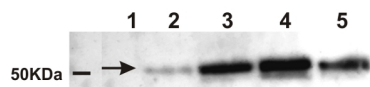


Product no **AS10 712****AMY | Alpha-amylase****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide derived from known <i>Oryza sativa</i> <a href="#">P17654</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<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>	Antibody will detect all alpha amylase isoforms from rice, barley and other cereals

**Application information**

<b>Recommended dilution</b>	1 : 5000 (WB)
<b>Expected   apparent MW</b>	43-48 kDa (depending upon the isoform)
<b>Confirmed reactivity</b>	<i>Oryza sativa</i> , <i>Panicum virgatum</i>
<b>Predicted reactivity</b>	Cereals, <i>Hordeum vulgare</i> , <i>Kalanchoe laxiflora</i>
	Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Pinus strobus</i>
<b>Selected references</b>	<a href="#">Ye et al. (2018)</a> . Natural variation in the promoter of rice calcineurin B-like protein10 (OsCBL10) affects flooding tolerance during seed germination among rice subspecies. <i>Plant J.</i> 2018 May;94(4):612-625. doi: 10.1111/tpj.13881.

**Application examples**

**25 µg** of total protein from *Oryza sativa* seedlings (from 1 day to 5 days of imbibition on filter paper at 28°C) extracted with an SDS Extraction Buffer (60mM Tris-HCl pH 8.0, 2% SDS, 1,5% Sucrose) were separated on XT CRITERION 10%Bis-Tris (BioRad) SDS-PAGE and blotted 1h to PVDF. Blot was blocked immediately in milk in TBS-T for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5,000 in milk in TBS-T for 3h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly once, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (goat anti-rabbit IgG HRP conjugated, [AS09 602](#)) diluted 1:20 000 in milk in TBS-T for 50 min at RT and then washed as above and developed for 3 min with chemiluminescent detection. Images of the blot were obtained using BioSpectrum AC Imaging System (UVP). Exposure time was 30 min. The arrow indicates alpha-amylase (between 47kDa and 50kDa as expected).

Courtesy Valeria Banti and prof. Pierodomenico Perata, PlantLab, Scuola Superiore Sant'Anna