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Product no AS10 712

Anti-AMY | Alpha-amylase

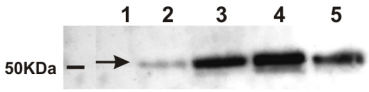
Product information

Immunogen	KLH-conjugated synthetic peptide derived from known *Oryza sativa* P17654
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 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.
Additional information	Antibody will detect all alpha amylase isoforms from rice, barley and other cereals

Application information

Recommended dilution	1 : 5000 (WB)
Expected | apparent MW	43-48 kDa (depending upon the isoform)
Confirmed reactivity	*Oryza sativa, Panicum virgatum*
Predicted reactivity	Cereals*, Hordeum vulgare, Kalanchoe laxiflora, Zea mays* Species of your interest not listed? Contact us
Not reactive in	*Pinus strobus*
Selected references	Ye et al. (2018). Natural variation in the promoter of rice calcineurin B-like protein10 (OsCBL10) affects flooding tolerance during seed germination among rice subspecies. Plant J. 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 diluition 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) diluited 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