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### Product no AS10 712

# AMY | Alpha-amylase

### **Product information**

Immunogen KLH-conjugated synthetic peptide derived from known *Oryza sativ*a P17654

Host Rabbit

Clonality Polyclonal

Purity Serum

Format Lyophilized

Quantity 100 μl

**Reconstitution** For reconstitution add 100 μl of sterile water

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

43-48 kDa (depending upon the isoform)

Confirmed reactivity Oryza sativa, Panicum virgatum

Predicted reactivity Cereals, Hordeum vulgare, Kalanchoe laxiflora

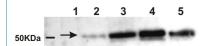
Species of your interest not listed? Contact us

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