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Product no AS20 4405

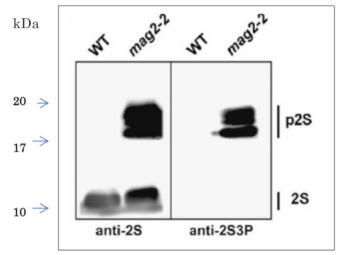
Anti-2S3P | 2S seed storage protein 3

Product information

Immunogen	Conjugated peptide, derived from N-propeptide of *Arabidopsis thaliana 2S3P,* UniProt: P15459, TAIR: At4g27160
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 2 mg/ml.
Quantity	200 µg
Storage	Store 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	Assay dependent (ELISA), 1: 500 (IL), 1: 2500 (WB)
Expected | apparent MW	18.7 | 17-20 kDa (2S albumin precursors)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Anti-2S3P antibodies are recognizing 2S albumin precursors (p2S) but not the mature forms (2S)
Selected references	Shirakawa et al. (2014). CONTINUOUS VASCULAR RING (COV1) is a trans-Golgi network-localized membrane protein required for Golgi morphology and vacuolar protein sorting. Plant Cell Physiol. 2014 Apr;55(4):764-72. doi: 10.1093/pcp/pct195. (Western blot, Arabidopsis thaliana) Li et al. (2006). MAIGO2 is involved in exit of seed storage proteins from the endoplasmic reticulum in Arabidopsis thaliana. Plant Cell. 2006 Dec;18(12):3535-47. doi: 10.1105/tpc.106.046151.(Immunolocalisation by electron microscopy, Western blot, Arabidopsis thaliana)



Arabidopsis thaliana dry seeds from wilde-type (WT) and *mag2-2* mutant (defective in processing of the precursors) were homogenised in SDS sample buffer (100 mM Tris/HCl, pH 6.8, 4 % SDS w/v, 20 % glycerol v/v, 10 % 2-mercaptoethanol) and separated on SDS-PAGE and blotted to PVDF membrane in wet system. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendations.

Anti-2S3P antibodies are recognizing 2S albumin precursors (p2S) but not the mature forms (2S).