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Product no AS20 4415

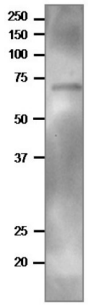
Anti-TGG2 | Myrosinase 2 (BGL37)

Product information

Immunogen	BSA-conjugated peptide, derived from N-terminus of *Arabidopsis thaliana* TGG2, UniProt: Q9C5C2 , TAIR: At5g25980
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), (IL), 1: 1000 (WB)
Expected | apparent MW	63 | 70 kDa
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	Signal peptide of 28 amino acids is removed from N-termins. Three glycosylation sites were identified in the mature form of the protein. Antibody specificity has been confirmed using wild-type and *tgg2-1* mutant Ueda et al. (2006).
Selected references	Liebminger et al. (2012). Myrosinases TGG1 and TGG2 from Arabidopsis thaliana contain exclusively oligomannosidic N-glycans. Phytochemistry. 2012 Dec;84(21):24-30.doi: 10.1016/j.phytochem.2012.08.023. (Western blot) Shirakava et al. (2010). Arabidopsis Qa-SNARE SYP2 proteins localized to different subcellular regions function redundantly in vacuolar protein sorting and plant development. Plant J. 2010 Dec;64(6):924-35.doi: 10.1111/j.1365-313X.2010.04394.x. (Western blot) Ueda et al. (2006). AtVAM3 is required for normal specification of idioblasts, myrosin cells. Plant Cell Physiol. 2006 Jan;47(1):164-75. doi: 10.1093/pcp/pci232. (Immunolocalisation, Western blot)



Arabidopsis thaliana crude leaf was freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Protein was loaded and separated on 15-20 % SDS-PAGE and blotted 1h to PVDF membrane. 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: 1000 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.
This antibody does not recognize *Arabidopsis thaliana* TGG1.