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Product AS16 3937

AGB1 | Guanine nucleotide-binding protein beta 1

Product information

Background
AGB1 belongs to a family of proteins involved in signal transduction. They are acting like molecular switches when transmitting signals from the outside to the inside of cells.

Immunogen
KLH-conjugated peptide derived from Arabidopsis thaliana AGB1 sequence, UniProt: P49177, TAIR: At4g34460

Host
Rabbit

Clonality
Polyclonal

Purity
Serum

Format
Lyophilized

Quantity
50 µl

Reconstitution
For reconstitution add 50 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 tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Tested applications
Western blot (WB)

Related products
- AS16 3938 | Anti-AGB1/AGG1 | Guanine nucleotide-binding protein subunit beta 1 and gamma 1, rabbit antibodies
- AS12 2370 | Anti-GPA1 | Guanine nucleotide-binding protein subunit alpha 1, rabbit antibodies
- AS16 3940 | Anti-RACK1 | Receptor for activated C kinase 1, rabbit antibodies
- AS11 1810 | Anti-RACK1A | Receptor for activated C kinase 1A, rabbit antibodies

Collection of antibodies to signal transduction pathway components

Application information

Recommended dilution
1 : 5000 (WB)

Expected | apparent MW
41 kDa | 35 (37 kDa in 10 % gel) kDa

Confirmed reactivity
Arabidopsis thaliana

Predicted reactivity
Brasica sp., Cajanus cajan, Camelina sativa, Capsella rubella, Eutrema sp., Cicer arietinum, Gossypium sp., Medicago truncatula, Morus sp., Cajanus cajan, Pisum sativum, Sesamum indicum, Solanum sp., Tarenaya hassleriiana, Theobroma cacao, Trifolium subterraneum

Not reactive in
No confirmed exceptions from predicted reactivity are currently known.

Additional information
10 % gel is recommended to use for a better protein resolution.

Selected references
To be added when available, antibody released in March 2017.
10 µl of protein samples from *Arabidopsis thaliana* were separated on SDS-PAGE and blotted 1h to PVDF using tank transfer. Blots were blocked with Tris-buffered saline containing 0.05% Tween-20 (TBS-T) and 5% skimmed milk powder for 1h at room temperature (RT) with agitation. The blot was incubated in the primary antibodies indicated at a dilution of 1: 5000 overnight at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 5 times for 15 min in TBS-T with milk powder at RT with agitation. The blot was incubated in secondary antibody (Goat-Anti-Rabbit AP conjugate, Sigma) diluted 1:5000 for 2h at RT with agitation. The blot was washed as above with TBS-T without milk powder, equilibrated in AP buffer (100mM TRIS pH=9.5, 100mM NaCl, 50mM MgCl2) and then developed with BioRad Immunstar AP substrate and imaged with a BioRad Chemi Doc Touch system. Exposure time was:  10 minutes.

Total protein from the indicated *Arabidopsis thaliana* lines was extracted with extraction buffer CE (250mM sucrose, 100mM HEPES-KOH pH 7.5, 5% glycerol, 1mM Na2MoO4 x 2H2O, 25mM NaF, 10mM EDTA, 1mM DTT, 0.5%Triton X-100, protease inhibitor cocktail). Protein concentration was measured with a Bradford assay and adjusted to 1mg/ml. Samples were denatured with SDS loading dye (50mM Tris-HCl pH6.8, 100mM DTT, 2%SDS, 10% glycerol, 0.025% bromophenol blue) at 70°C for 2-5 min.

Courtesy of Dr. Elena Petusching, Georg-August-University Goettingen, Germany