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This product is for research use only (not for diagnostic or therapeutic use)

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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 | Affinity purified serum

Format | Lyophilized

Quantity | 50 µg

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](#)

[Plant protein extraction buffer](#)

[Secondary antibodies](#)

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 hassleriana*, *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.

This product can be sold containing proclin if requested.

Selected references | To be added when available, antibody released in March 2017.

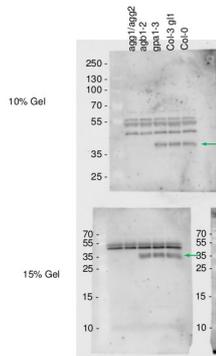
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Application example



10 μ l 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 Petuschang, Georg-August-University Goettingen, Germany