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Product no AS23 4912

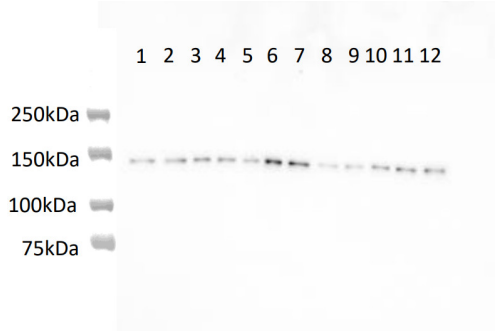
Anti-Raptor 1/2 | Regulatory-associated protein of TOR 1/2

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* Raptor 1A UniProt: Q93YQ1 GeneID: AT3G08850 and Raptor 1B UniProt: Q9LZW9, GeneID: At5g01770 Due to high sequence conservation between isoform 1A and 1B finding a peptide found only in isoform 1A or 1B was not possible.
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl, of sterile or deionized 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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	147 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brachypodium distachyon, Brassica napus, Cannabis sativa, Glycine max, Gossypium, Hordeum vulgare, Malus domestica, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Pisum sativum, Populus, Solanum lycopresicum, Solanum tuberosum, Sorghum bicolor, Spinacia oleracea, Theobroma cacao, Triticum, Vitis vinifera, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available, antibody available in March 2026.



Samples:
1-3: 10 µg protein from Col-0 ·
4-9: 10 µg protein from misc mutants
10-12: 10 µg protein of RAPTOR1b knockout mutant

5-15 µg/well of total protein was extracted freshly from *Arabidopsis thaliana* root tips. Exact buffer components were: TBS, PhosStop, and Protease inhibitor cocktail and denatured with Laemmli buffer with 10% BME at 95°C/5 min. Samples were separated at room temperature on 8 % SDS-PAGE and blotted for 1.5 hrs to nitrocellulose (pore size of .45 um), using: wet transfer in the cold. Blot was blocked with 5 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1:1000 ON/4°C with agitation. The antibody solution was decanted, and the blot was rinsed briefly three times, then washed once for 15 min and 3 times for 5 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: 5000 in for 2 h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: Pierce™ ECL Plus Western Blotting Substrate. Exposure time was by automatic detection.

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Notes:
It has not been ruled out if a band in Raptor 1b mutant is Raptor 1a protein. Double Raptor 1a/b mutant may be lethal.

PhosSTOP is a proprietary blend of phosphatase inhibitors, formulated as a ready-to-use, quick-dissolving, water-soluble tablet. Comprehensive protection: Inhibit acid and alkaline phosphatases, as well as serine/threonine (PP1, PP2A, and PP2B) and tyrosine protein phosphatases.

Courtesy of Dr. Brandon Reagan, Michigan State University, USA