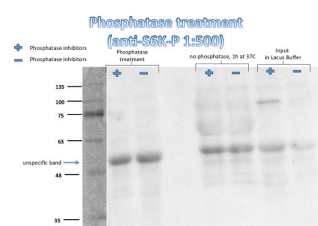


Product no **AS13 2664****Anti-S6K1-2 | Ribosomal-protein S6 kinase homolog 1,2 - phosphorylated****Product information**

Immunogen	KLH-conjugated peptide containing phospho-Thr, derived from <i>Arabidopsis thaliana</i> S6K1: UniProt: P42818 , TAIR: AT3G08730 and S6K2: UniProt: Q39030 , TAIR: AT3G08720 . Due to high amino acid homology, chosen peptide is conserved in both proteins: S6K1 and S6K2.
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
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 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. Never Store this antibody in 4 °C

Application information

Recommended dilution	1 : 500 (WB)
Expected apparent MW	52.6 kDa (S6K1) and 53 kDa (S6K2) 60 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	<i>Brassica oleracea</i> , <i>Thelungiella halophila</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Following protein extraction, the extract must be promptly loaded to SDS-PAGE and not frozen.
Selected references	<p>Tanigawa et al. (2024). FYVE1/FREE1 is involved in glutamine-responsive TORC1 activation in plants. <i>iScience</i>. 2024 Aug 26;27(9):110814. doi: 10.1016/j.isci.2024.110814.</p> <p>Li et al. (2023). Mitigating growth-stress tradeoffs via elevated TOR signaling in rice. <i>Mol Plant</i>. 2023 Dec 5:S1674-2052(23)00396-9. doi: 10.1016/j.molp.2023.12.002.</p> <p>González-López et al. (2021). Growth promotion in <i>Arabidopsis thaliana</i> by bacterial cyclodipeptides involves the TOR/S6K pathway activation. <i>Journal of Plant Physiology</i>. Volume 257, 2021, 153343, ISSN 0176-1617, https://doi.org/10.1016/j.jplph.2020.153343.</p> <p>Kazibwe et al. (2020). TOR mediates the autophagy response to altered nucleotide homeostasis in a ribonuclease mutant. <i>J Exp Bot</i>. 2020 Sep 9;eraa410. doi: 10.1093/jxb/eraa410.</p> <p>Dealy et al. (2019). CEP3 levels affect starvation-related growth responses of the primary root. <i>J Exp Bot</i>. 2019 Jun 6. pii: erz270. doi: 10.1093/jxb/erz270.</p> <p>Wang et al. (2017). The inhibition of protein translation mediated by AtGCN1 is essential for cold tolerance in <i>Arabidopsis thaliana</i>. <i>Plant Cell Environ</i>. 2017 Jan;40(1):56-68. doi: 10.1111/pce.12826.</p> <p>Wang et al. (2017). Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. <i>Mol Cell</i>. 2017 Dec 27. pii: S1097-2765(17)30930-9. doi: 10.1016/j.molcel.2017.12.002.</p>

Application example

30 µg of total protein of *Arabidopsis thaliana* 10 days old seedlings extracted with Lacus buffer with or without phosphatase inhibitors and kept at 4°C prior to denaturation for 5 min. at 95°C. Samples were separated on 6.5 % SDS-PAGE and blotted 2h to PVDF. Phosphatase treatment was done with CIAP ("+" phosphatase inhibitors added, "-" phosphatase inhibitors not included). Blots were blocked with 5% milk in TBST for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:500 for overnight at 4°C with agitation. The antibody solution was decanted and the blot was washed three times for 15 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated from Agrisera, [AS09_602](#)) diluted to 1:10 000 in 2.5% milk in TBST for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was few minutes.

Courtesy of Dr. Rossana Henriques, CRAG, Spain