

Product no **AS13 2664**

S6K1-2 | Ribosomal-protein S6 kinase homolog 1,2 - phosphorylated

Product information

Background	Ribosomal S6 kinase 1/2 (S6K1/2) involved in TOR signaling pathway, in osmotic stress response. Activated by PDK1 and repressed during osmotic stress. Expressed in all tissues, especially during high metabolic activity in growing buds, root tips, leaf margins and germinating seeds. Alternative names: AtPK1/AtPK6 S6K1), AtPK2/AtPK19 (S6K2).
Immunogen	<u>KLH</u> -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	Affinity purified serum in PBS, pH 7.4
Format	Lyophilized in PBS pH 7.4
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. Never Store this antibody in 4°C.
Tested applications	Western blot (WB)
Related products	AS12 1855 anti-S6K1/2 Ribosomal S6 kinase 1/2, rabbit antibody AS12 2608 anti-TOR Target of rapamycin, rabbit antibody Plant protein extraction buffer Secondary antibodies

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>Thelungiella halophila</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Selected references	Kazibwe et al. (2020). TOR mediates the autophagy response to altered nucleotide homeostasis in a ribonuclease mutant. J Exp Bot. 2020 Sep 9;eraa410.doi: 10.1093/jxb/eraa410. Dealy et al. (2019). CEP3 levels affect starvation-related growth responses of the primary root. J Exp Bot. 2019 Jun 6. pii: erz270. doi: 10.1093/jxb/erz270. Wang et al. (2017). The inhibition of protein translation mediated by AtGCN1 is essential for cold tolerance in Arabidopsis thaliana. Plant Cell Environ. 2017 Jan;40(1):56-68. doi: 10.1111/pce.12826. Wang et al. (2017). Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. Mol Cell. 2017 Dec 27. pii: S1097-2765(17)30930-9. doi: 10.1016/j.molcel.2017.12.002.

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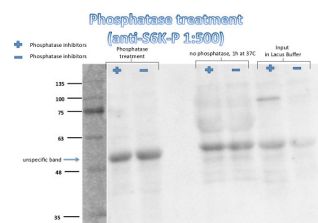
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Application example



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