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Product no AS20 4371

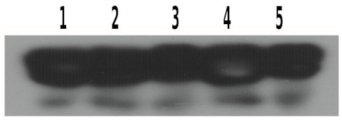
eIF2-alpha | Eukaryotic translation initiation factor 2 subunit alpha

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* eIF2-alpha, UniProt: Q9FE78, TAIR: AT5G05470
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.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	38.8 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Brassica napus, Brassica oleracea, Camelina sativa, Capsella rubella, Medicago truncatula, Noccaea caerulescens, Papaver somniferum, Raphanus sativus, Tarenaya hassleriana, 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 released in April 2020.



Samples:
1-4 14 days old *Arabidopsis thaliana* wild-type
5 - *Arabidopsis thaliana gcn2* mutant

Arabidopsis thaliana whole seedlings were grinded in liquid nitrogen and 80 mg of tissue powder was resuspended in 100 µl of 0.5xSDS Laemmli buffer in a 1.5 ml tube. After 5 minutes of mixing at room temperature, tubes were centrifuged at 21 000 xg for 10 minutes at RT. For immunoblog analysis 10 µl of supernatant was separated on a 12.5 % (w/v) SDS-PAGE gel and electroblotted onto PVDF membrane. After 1 h of blocking at RT with 1x blocking buffer (TBS-T, 5 % non-fat milk and 0.2 % BSA), the membrane was washed with 1xTBS-T four times for 10 minutes each. Post washing, membrane was incubated with anti-eIF2alpha antibodies at 1: 5000 for 48 h at 4°C. Following the washing with TBS-T, 10 minutes each for six repeats, the membrane was incubated in the goat anti-rabbit IgG, HRP conjugated secondary antibodies for 1h at RT followed by washing with TBS-T 10 minutes each for ten repeats and the blot was developed with chemiluminescent detection reagents, according to manufacture's recommendations.

Courtesy of Dr. Ansul Lokdarshi, Biochemistry & Cellular and Molecular Biology, University of Tennessee, USA