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Product no AS23 4949

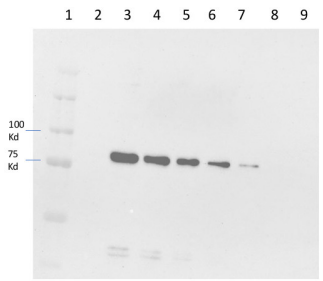
Anti-SIG5 | RNA polymerase sigma factor sigE

Product information

Immunogen	KLH-conjugated peptide derived from Arabidopsis thaliana SIG5 protein sequence, UniProt: Q9ZNX9 GeneID: AT5G24120
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	58.8 | 55.4 kDa (due to N-terminal processing)
Confirmed reactivity	*Arabidopsis thaliana* (recombinant SIG5)
Predicted reactivity	*Arachis hypogaea, Brachypodium distachyon, Brassica napus, Cannabis sativa, Capsicum annuum, Glycine max, Gossypium, Hordeum vulgare, Malus domestica, Medicago truncatula, Nicotiana tabacum, Oryza sativa, Pisum sativum, Populus, Ricinus communis, Solanum lycopersicum, Solanum tuberosum, Sorghum bicolor, Spinacia oleracea, Theobroma cacao, Triticum sp., Vitis vinifera, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is recognizing recombinant SIG5 and its reactivity in endogenous sample remains to be determined.
Selected references	To be added when available, antibody available in February 2026.



Samples:

1. MW standards
2. 6xHis-GST-AtmSIG6 (2ug eluate)
3. 6xHis-GST-AtmSIG5 (2ug eluate)
4. 6xHis-GST-AtmSIG5 (1ug eluate)
5. 6xHis-GST-AtmSIG5 (0.5ug eluate)
6. 6xHis-GST-AtmSIG5 (0.25ug eluate)
7. 6xHis-GST-AtmSIG5 (0.125ug eluate)
8. 6xHis-GST-AtmSIG5 (0.0625ug eluate)
9. 6xHis-GST-AtmSIG5 (0.03125ug eluate)

SIG5 was overexpressed in *E.coli* and varoius amounts of *E.coli* extract were loaded/well.

MW of recombinant pETG-30A_6xHis-GST-AtmSIG5 is 84 kD

Protein extracts were warmed for 5 min at 80ºC in thermo block. Debris was eliminated by centrifugation at 10,000 x G for 10 min, and supernatant was transferred to clean 1.7 mL tube for use. Concentration of total protein was determined via Pierce™ Detergent Compatible Bradford Assay Kit. A 2x dilution series, starting at 10µg of total protein separated via 10% acrylamide SDS-PAGE. Proteins were transferred to PVDF membranes for 30 minutes using Bio-Rad Trans-Blot Turbo Transfer System. Blot was blocked in 5% non-fat milk in TBS-T overnight at 4C with agitation. Blot was incubated with Agrisera anti-Sig5 primary antibody (AS23 4949) at a dilution of 1:1000 for 1hr at RT with agitation in TBS-T. The antibody solution was decanted, and the blot was rinsed briefly, then washed 3 times for 5 minutes in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG HRP conjugated, AS09 602) diluted to 1:25 000 in TBS-T for 1 hr at RT with agitation. The blot was washed as above and developed chemiluminescent detection reagent. The blot was then exposed for 0.1s, 1s, or 60s via Bio-Rad ChemiDoc MP imager. The blot was then imaged colorimetrically and merged with the 1s exposure to determine molecular weight using Bio-Rad Precision Plus Protein™ All Blue Prestained Protein Standards. The blot was then stained with 0.1% Coomassie Brilliant Blue to account for proper protein transfer and loading.

Courtesy of Dr. Martin Matthew Ross, Department of Biochemistry and Center for Plant Biology, Purdue University, USA