Agrisera
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This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS09 607

Goat anti-Rabbit IgG (H&L), ALP conjugated

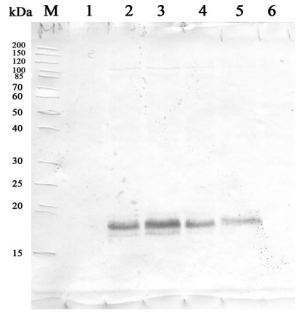
Product information

Immunogen	Purified Rabbit IgG, whole molecule
Host	Goat
Clonality	Polyclonal
Purity	Immunogen affinity purified goat IgG.
Format	Liquid, clear, colorless.
Quantity	1 mg
Storage	Non-diluted antibody is stable for 4 years at 2-8°C. For storage at -20°C dilute antibody solution with an equal volume of glycerol to obtain final glycerol concentration of 50 % to prevent loss of enzymatic activity. Such solution will not freeze in -20°C. If you are using a 1:5000 dilution prior to diluting with glycerol, then you would need to use a 1:2500 dilution after adding glycerol. Prepare working dilution prior to use and then discard, Be sure to mix well but without foaming.
Additional information	Concentration: 1.5mg/ml. Antibody has been affinity purified on solid phase rabbit IgG (H&L). AP conjugate is supplied in 30 mM Triethanolamine, pH 7.2, 5 mM Magnesium Chloride, 0.1 mM Zinc Chloride, 1 % (w/v) BSA, Protease/IgG free. 0.05 % (w/v) of sodium azide is added as preservative

Application information

Recommended dilution	1 : 500-1: 8 000 (ELISA), 1 : 500 -1 : 2000 (IHC), 1 : 500-1: 8 000 (WB)
Confirmed reactivity	Rabbit IgG heavy and light chains (H&L)
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Based upon IEP, this antibody binds to: • Heavy chains on rabbit IgG • Light chains on all rabbit immunoglobulins No reactivity is observed to non-immunoglobulin rabbit serum proteins based in immunoelectrophoresis.
Selected references	Pinczés et al. (2024). Viral coat proteins decrease the gene silencing activity of cognate and heterologous viral suppressors. Sci Rep. 2024 Dec 28;14(1):31008. doi: 10.1038/s41598-024-81998-4. Loudya et al. (2021) Cellular and transcriptomic analyses reveal two-staged chloroplast biogenesis underpinning photosynthesis build-up in the wheat leaf. Genome Biol. 2021 May 11;22(1):151. doi: 10.1186/s13059-021-02366-3. PMID: 33975629; PMCID: PMC8111775. Bapatla et al. (2021). Modulation of Photorespiratory Enzymes by Oxidative and Photo-Oxidative Stress Induced by Menadione in Leaves of Pea (Pisum sativum). Plants 10, no. 5: 987. https://doi.org/10.3390/plants10050987 Szymanska et al. (2019). SNF1-Related Protein Kinases SnRK2.4 and SnRK2.10 Modulate ROS Homeostasis in Plant Response to Salt Stress. Int J Mol Sci. 2019 Jan 2;20(1). pii: E143. doi: 10.3390/ijms20010143. Rozpadek et al. (2018). Acclimation of the photosynthetic apparatus and alterations in sugar metabolism in response to inoculation with endophytic fungi. Plant Cell Environ. 2018 Dec 5. doi: 10.1111/pce.13485. Borovik and Grabelnych (2018). Mitochondrial alternative cyanide-resistant oxidase is involved in an increase of heat stress tolerance in spring wheat. J Plant Physiol. 2018 Dec;231:310-317. doi: 10.1016/j.jplph.2018.10.007.

Application example



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24 µg of *Triticum aestivum* L. whole leaf extract **(1)**, 23 µg of *Triticum aestivum* L. whole leaf extract 37° ,3h **(2)**, 22 µg of *Triticum aestivum* L. whole leaf extract, 37° , 24h **(3)**, 20 µg of *Triticum aestivum* L. whole leaf extract, 37° ,24h+50°C/1h **(4)**, 17 µg of *Triticum aestivum* L. whole leaf extract, 37° ,24h+50°C, 3h **(5)**, 23 µg of *Triticum aestivum* L. whole leaf extract, Control+50°C, 1h **(6)**.

700 µg of total protein from spring wheat *Triticum aestivum* L. green leaves extracted with write exact buffer components 100 mM Tris HCl (pH=7.4), 1 mM beta-mercaptoethanol, 1 mM PMSF and denatured with 65.2 mM Tris HCl (pH=6.8), 1mM EDTA, 1% SDS, 20% glycerol, 5% beta-mercaptoethanol at 97°C for 5 min and 20 µg of total protein were separated on 12.5 % SDS-PAGE and blotted 2h on nitrocellulose membrane (GE Healthcare) using tank transfer. Blots were blocked with a skimmed milk 3 % in TBS for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation in TBS. The antibody solution was decanted and the blot washed 2 times for 10 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG, ALP conjugated, AS09 607, from Agrisera) diluted to 1:1000 in a skimmed milk 3 % in TBS for 1h at RT with agitation. The blot was washed 3 times for 5 min in TBS-T at RT with agitation and developed WB. The proteins were detected with 5-bromo-4-chloro-3-indolyl phosphate (Thermo Scientific) and Nitrotetrazolium Blue (Thermo Scientific). Exposure time was 5.20 minutes.

Courtesy of Dr. Olga Borovik, Laboratory of Physiological Genetics Siberian Institute of Plant Physiology and Biochemistry SB RAS Russia