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Product no AS09 602-trial

Goat anti-Rabbit IgG (H&L), HRP conjugated - trial sample

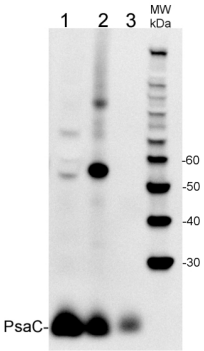
Product information

Immunogen	Purified Rabbit IgG, whole molecule,
Host	Goat
Clonality	Polyclonal
Purity	Immunogen affinity purified using solid phase rabbit IgG.
Format	Liquid
Quantity	10 µl
Storage	Store liquid material at 2-8°C up to 6 months.
Additional information	Concentration: 1.0 mg/ml. Antibody is provided in: 10 mM Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 1% BSA (w/v), Protease IgG free, 0.1 % (v/v) Kathon CG. Affinity purified antibody is > 95 % pure, according to SDS-PAGE.

Application information

Recommended dilution	1 : 50 000 -1 : 90 000 (ELISA), 1 : 500 -1 : 5000 (IHC), 1: 10 000 -1 : 50 000 (WB)
Confirmed reactivity	Based on IEP, this antibody Reacts with: Rabbit IgG heavy chainslight chains on all Rabbit immunoglobulins
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	No reactivity is observed to non-immunoglobulin rabbit serum
Selected references	Migocka et al. (2018). Cucumber metal tolerance protein 7 (CsMTP7) is involved in the accumulation of Fe in mitochondria under Fe excess. Plant J. 2018 Jun 22. doi: 10.1111/tpj.14006. Tong et al. (2018). Delivery of siRNA in vitro and in vivo using PEI-capped porous silicon nanoparticles to silence MRP1 and inhibit proliferation in glioblastoma. J Nanobiotechnology. 2018 Apr 13;16(1):38. doi: 10.1186/s12951-018-0365-y. Nikkanen et al. (2018). Regulation of chloroplast NADH dehydrogenase-like complex by NADPH-dependent thioredoxin system. CSH, BioRixiv. doi.org/10.1101/261560. Gzyl et al. (2017). Gamma-tubulin distribution and ultrastructural changes in root cells of soybean (Glycine max L.) seedlings under cadmium stress. Environmental and Experimental Botany, Vol 143, Nov 2017, Pages 82-90. Kamies et al. (2017). A Proteomic Approach to Investigate the Drought Response in the Orphan Crop Eragrostis tef. Proteomes. 2017 Nov 15;5(4). pii: E32. doi: 10.3390/proteomes5040032. Niederhuber et al. (2017). Super-resolution microscopy of the ß-carboxysome reveals a homogenous matrix. Mol Biol Cell. 2017 Aug 9. pii: mbc.E17-01-0069. doi: 10.1091/mbc.E17-01-0069. This antibody is listed in first 7000 most published antibodies in the world by CiteAB report.

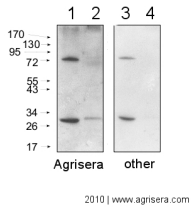
application example



5 µg of total extract from (**1**) *Hordeum vulgare*total leaf, (**2**) *Zea mays* (**3**) *Spinacia oleracea* extracted with PEB (**AS08 300**) were separated on 4-12% NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in 2% ECL Advance blocking

reagent (GE Healthcare) in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary anti-PsaC antibody (AS04 042) at a dilution of 1: 10 000 for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (goat anti-rabbit IgG horse radish peroxidase conjugated, AGRISERA) diluted to 1:50 000 in 2% ECL Advance blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL Advance detection reagent according to the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad). Exposure time was 30 seconds.

Comparison of Agrisera secondary antibody sensitivity



10 µg of mitochondrial fraction from *Arabidopsis thaliana* **(1,3)** and *Arabidopsis thaliana* leaf extract **(2,4)** were separated on 10% gel and blotted on nitrocellulose membrane using wet transfer (0.22% CAPS, pH 11). Filters where blocked (1.5h) in 5% milk in TBST (1X TBS, 0,1% Tween 20), incubated with 1: 1000 anti-COXII antibodies (2h in TBST) followed by incubation with 1: 10 000 secondary anti-rabbit (1h) HRP-coupled antibodies from **Agrisera (left panel)** and **other manufacture (right panel)** and visualized with standard ECL on Kodak autoradiography film for 5 s. Antibody in left panel detects target protein also in total cell extract **(2)** and can be used in higher dilution than applied 1: 10 000.

Agrisera goat anti-rabbit HRP conjugated antibody (AS09 602) can be used at following dilutions: 1: 50 000 -1: 90 000 (ELISA), 1 : 75 000 with enhanced ECL and 1: 25 000 with regular ECL (WB), 1: 500 -1: 5000 (IHC).