Agrisera
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Product no AS11 1772

Goat anti-Mouse IgG (H&L), HRP conjugated

Product information

Immunogen	Purified mouse IgG (H&L), whole molecule, AAA51107
Host	Goat
Clonality	Polyclonal
Purity	Immunogen affinity purified goat IgG.
Format	Lyophilized
Quantity	1 mg
Reconstitution	For reconstitution add 1.1 ml of sterile water. Let it stand 30 minutes at room temperature to dissolve. Centrifuge to remove any particulates. Prepare fresh working dilutions daily.
Storage	Store lyophilized material at 2-8°C. For long time storage after reconstitution, dilute the antibody solution with glycerol to a final concentration of 50% glycerol and store as liquid at -20°C, to prevent loss of enzymatic activity. For example, if you have reconstituted 1 mg of antibody in 1.1 ml of sterile water add 1.1 ml of glycerol. 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: 1.0 mg/ml. Purity of this preparation is > 95% based on SDS-PAGE. Antibody concentration is 1.0 mg/ml. Antibody is supplied in 10 mM sodium phosphate, 0.15 M sodium chloride, pH 7.2.1 % (w/v) B, Protease/IgG free. Contains 0.1 % (v/v) ProClin 150 as preservative of bacterial growth. The antibody will detect all isotypes of mouse IgG.

Application information

Recommended dilution	The optimal working dilution should be determined by the investigator
Confirmed reactivity	Heavy chains on mouse IgG and light chains on all mouse immunoglobulins
Not reactive in	Non-immunoglobulin mouse serum proteins
Selected references	Chung et al. (2024). Identification and characterization of the COPII vesicle-forming GTPase Sar1 in Chlamydomonas. Plant Direct. 2024 Jun 16;8(6):e614. doi: 10.1002/pld3.614. Mets et al. (2024). Mechanism of phage sensing and restriction by toxin-antitoxin-chaperone systems. Cell Host Microbe . 2024 May 23:S1931-3128(24)00174-4. doi: 10.1016/j.chom.2024.05.003. Hemmel et al. (2024). Optimized transgene expression in the red alga Porphyridium purpureum and efficient recombinant protein secretion into the culture medium.Plant Mol Biol. 2024 Feb 14;114(1):18.doi: 10.1007/s11103-024-01415-2. Chung et al. (2023). An RNA thermometer in the chloroplast genome of Chlamydomonas facilitates temperature-controlled gene expression. Nucleic Acids Res. 2023 Nov 10;51(20):11386-11400. doi: 10.1093/nar/gkad816. Kasari et al. (2019). A role for the Saccharomyces cerevisiae ABCF protein New1 in translation termination/recycling. Nucleic Acids Res. 2019 Jul 12. pii: gkz600. doi: 10.1093/nar/gkz600. Li and Bock (2018). Replication of bacterial plasmids in the nucleus of the red alga Porphyridium purpureum. Nat Commun. 2018 Aug 27;9(1):3451. doi: 10.1038/s41467-018-05651-1. Shin et al. (2017), Complementation of a mutation in CpSRP43 causing partial truncation of light-harvesting chlorophyll antenna in Chlorella vulgaris. Sci Rep. 2017 Dec 20;7(1):17929. doi: 10.1038/s41598-017-18221-0. Dmitrović et al. (2015). Essential oils of two Nepeta species inhibit growth and induce oxidative stress in ragweed (Ambrosia artemisiifolia L.) shoots in vitro. Acta Physiologiae Plantarum, February 2015, 37:64.

application example

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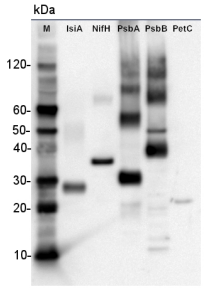

500 femtomoles of His-tagged proteins IsiA, NifH, PsbA, PsbB and PetC were loaded per gel well in Agrisera PEB extraction buffer. Proteins were separated on **4-12 % NuPAGE PAGE** Bis-Tris polycacrylamide gel (Invitrogen) and blotted 1h to **PVDF**. Blots were blocked with for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation. 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 RT with agitation. Blot was incubated in secondary antibody (goat, anti-mouse IgG horse radish peroxidase conjugated, from Agrisera AS11 1772) diluted to 1:25 000 in 2 % ECL Advance blocking reagent for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturers instructions. Exposure time was 5 seconds.

Apparent molecular weight of recombinant proteins: IsiA - 27 kda, NifH - 34 kDa, PsbA - 30-37 kDa, PsbB - 40 kDa, PetC - 23 kDa.