product **AS09 602**

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

**product information**

**Background**

Goat anti-rabbit IgG (H&L) is a secondary antibody conjugated to HRP which binds to all rabbit IgGs in immunological assays.

**Immunogen**

Purified Rabbit IgG, whole molecule.

**Host**

Goat

**Clonality**

Polyclonal

**Purity**

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. 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.

**Tested applications**

ELISA (ELISA), Immunohistochemistry (IHC), Western blot (WB)

**Related products**

- AS09 607 | Goat anti-rabbit IgG (H&L) ALP conjugated
- AS09 608 | Goat anti-rabbit IgG (H&L) biotin conjugated
- AS10 668 | Goat anti-Rabbit IgG (H&L) HRP conjugated, min.cross-reactivity to bovine/Human/mouse IgG/serum

**Additional information**

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.

This antibody is used on a very wide range of samples from various species including many model plants, algae and diatoms.

**Application information**

**Recommended dilution**

1 : 50 000 - 1 : 90 000 (ELISA), 1 : 500 - 1 : 5000 (IHC), 1 : 10 000 - 1 : 20 000 (WB)

**Confirmed reactivity**

Based on IEP, this antibody Reacts with: Rabbit IgG heavy chainslight chains on all Rabbit immunoglobulins

**Additional information**

No reactivity is observed to non-immunoglobulin rabbit serum.

**Selected references**

This product is for research use only (not for diagnostic or therapeutic use)

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, AS09 602, 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).