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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Rabbit IgG [A10B] Standard Size Ab03007-1.29

This is a Fab fragment with a his-tag.

Isotype and Format: Mouse Fab fragment, His-Tagged, Kappa

Clone Number: A10B

Alternative Name(s) of Target: immunoglobulin gamma

UniProt Accession Number of Target Protein:

Published Application(s): SPR, WB, ELISA

Published Species Reactivity: Rabbit

Immunogen: The antibody was originally generated by immunizing BALB/c mice with purified rabbit IgG.

Specificity: The antibody recognizes the constant heavy chain 1 (CH1) domain of rabbit IgG.

Application Notes: Different formats of the antibody (scFv-cys, scFv, Fab and IgG) were employed for the construction of biosensors used for antigen detection in complex samples. In scFv-cys, one glycine of the linker was replaced with a cysteine, which determine an orientation of the scFv fragments on the sensor surface. The performance, in terms of sensitivity and selectivity, in biosensors prepared with scFv-cys, scFv, Fab and IgG was compared. The scFv-cys based biosensors displayed greater assay sensitivity and exhibited less nonspecific activity than intact monoclonal IgG and Fab fragment-based immunosensors. The scFv-cys biosensor surface was easily regenerated by stripping the rabbit IgG from the surface using an acidic solution. Moreover, western blot analysis showed purified scFv migrated as a single band at a MW of ~32 000 and did not appear to be degraded and the specificity of IgG1, Fab fragment and scFv towards rabbit IgG was determined by ELISA. (PMID: 15679346) In another study, two histidine amino acids were incorporated into the linker peptide of the scFv fragment and the scFv-His fragment was then employed to develop a new biosensor. The specificity of scFv and scFv-Hys were confirmed by ELISA. (PMID: 16255580) The affinity constant of rabbit IgG binding with scFv measured by using a conventional regeneration SPR method ($(2.2 \pm 1.5) \times 10^7 \text{ M}^{-1}$) was comparable with the value determined with a nonregeneration protocol ($(2.5 \pm 0.2) \times 10^7 \text{ M}^{-1}$), and quartz crystal microbalance ($1.9 \times 10^7 \text{ M}^{-1}$). (PMID: 16536419)

Antibody First Published in: Shen et al. Single-chain fragment variable antibody piezoelectrochemical sensors. *Anal Chem.* 2005 February 1; 77(3): 797–805. [PMID:15679346](#)

Note on publication: The paper describes a biosensor with high diagnostic potential for rapid and sensitive detection of antigens in complex biological samples.

Product Form

Size:

100 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.