



PRODUCT INFORMATION

Protein A HRP Conjugate - 0.125 mg

PRODUCT CODE: X-CON-0007-0.125MG

STORAGE: 2 - 8 °C, protected from sun light

PRODUCT DESCRIPTION

Protein A is a 42 kDa surface protein originally found in the cell wall of the bacteria *Staphylococcus aureus*. Protein A binds strongly to the Fc region of IgG from human (total IgG, IgG1, IgG2, IgG4), mouse (IgG2a, IgG2b and IgG3), rabbit, guinea pig, pig, dog, and rhesus monkey. Horseradish peroxidase (HRP) oxidizes corresponding substrates with high efficiency, generating colorimetric or chemiluminescent reactions and is frequently used as a reporter enzyme for sensitive assays like ELISA, immuno-histochemistry or western blot.

Protein A is conjugated with horseradish peroxidase under optimal conditions. Protein A HRP Conjugate is useful as a secondary reagent for detecting specified IgG in ELISA, and immunoblotting procedures. In Western blotting analysis of immunoprecipitation experiments Protein-A HRP Conjugate will avoid IgG heavy/light chain issue because it only recognizes the IgG in its native form, and the antibody used in immunoprecipitation is usually boiled with the immunoprecipitates in SDS-PAGE and gets denatured.

PRECAUTIONS AND DISCLAIMER

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

FORMULATION

For shipping at ambient temperature Protein-A HRP Conjugate is dried with a HEPES, NaCl, sucrose buffer base.

PREPARATION AND HANDLING

The product should be reconstituted with 100 µl water yielding a concentration of 1 mg/ml. The reconstituted stock solution can be frozen in aliquots for later usage. Stock solutions can be diluted in buffers containing > 0.1 % BSA (IgG free) as needed. Avoid exposure to sodium acid.

STORAGE / STABILITY

For long term storage the dry-stabilized Protein-A HRP Conjugate should be stored between 2 °C and 8 °C. Reconstituted stock solutions can be stored at 2 - 8 °C for up to 2 weeks. For long term storage, stock solutions can be frozen in working aliquots. Repeated freeze-thaw cycles should be avoided.

RECONSTITUTION AND CONCENTRATION

1.0 mg/ml after reconstitution with 100 µl H₂O (concentration relates to the Protein-A only component of the conjugate).

RECOMMENDED ELISA DILUTION

1:1000 – 1:5000 in secondary ELISA detection.

RECOMMENDED RETEST DATE

07/2021

BACKGROUND REFERENCES

1. Goding, J.W., Use of staphylococcal protein A as an immunological reagent, *J. Immunol. Methods*, 20, 241-53 (1978).