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Product Information

Anti-Glutathione-S-Transferase (GST)–Alkaline Phosphatase
produced in rabbit, IgG fraction of antiserum

Catalog Number **A5838**

Product Description

Anti-Glutathione-S-Transferase (GST) is produced in rabbit using repeated injections of recombinant GST from *Schistosoma japonicum* expressed in *E. coli* as the immunogen. Whole antisera is fractionated and then further purified by ion-exchange chromatography to provide the IgG fraction of antiserum that is essentially free of other rabbit serum proteins. The IgG fraction is then conjugated to calf intestinal alkaline phosphatase using glutaraldehyde.

Anti-Glutathione-S-Transferase (GST) -Alkaline Phosphatase recognizes native as well as denatured-reduced forms of GST from *Schistosoma japonicum* (27.5 kDa) as determined by immunoblotting.

Reagent

Provided as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1.0 mM $MgCl_2$ and 15 mM sodium azide.

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.

Storage/Stability

For continuous use and extended storage, store at 2–8 °C. Do not freeze. Solutions at working dilution should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a minimum working dilution of 1:20,000 is determined using a chemiluminescent substrate.

ELISA: a minimum working dilution of 1:400 is determined using wells coated with 5 µg/ml GST in carbonate buffer.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilution by titration test.

Procedure

Immunoblotting

All incubation steps should be performed at room temperature.

1. Separate GST from other proteins present in the sample using a standard SDS-PAGE protocol.
2. Transfer proteins from the gel to a nitrocellulose membrane.
3. Block the membrane using a solution of 5–10% non-fat dry milk in phosphate buffered saline (PBS, Catalog No. D8537) for at least 60 minutes.
4. Wash the membrane three times for 5 minutes each in PBS containing 0.05% TWEEN® 20, Catalog No. P3563.
5. Incubate the membrane with Anti-GST-Alkaline Phosphatase conjugate using an optimized concentration in PBS containing 0.05% TWEEN 20 and 1% bovine serum albumin (BSA, Catalog No. A9647) for two hours.
6. Wash the membrane three times for 5 minutes each in PBS containing 0.05% TWEEN 20.
7. Treat the membrane with an alkaline phosphatase chemiluminescent substrate.

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