Product Information

# Anti-Guinea Pig IgG (Whole Molecule)-Peroxidase Antibody produced in Rabbit

Affinity Isolated Antibody, Buffered Aqueous Solution

**A5545**

## Product Description

Anti-Guinea Pig IgG (whole molecule) is produced in rabbit using purified guinea pig IgG as the immunogen. Affinity isolated antibody is obtained from rabbit anti-guinea pig antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to guinea pig IgG. Rabbit anti-guinea pig IgG is then conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of the Anti-Guinea Pig IgG (whole molecule)-Peroxidase is determined by immunoelectrophoresis (IEP) versus normal guinea pig serum and guinea pig IgG.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the product followed by diffusion versus the anti-rabbit IgG and the anti-rabbit whole serum results in single arcs of precipitation.

## Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT as a preservative.

## Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

## Storage

Store at –20 °C for long term use. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots at –20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

## Product Profile

Molar Ratio: (IgG: Peroxidase) = 0.6 to 1.5

### Direct ELISA

1:50,000-1:80,000

We are now reporting lot specific information as a titer by direct ELISA rather than as a working dilution.

Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 450 nm after 30 minutes of substrate conversion at 25 °C.[1]

Microtiter plates are coated with purified guinea pig IgG at a concentration of 5 µg/mL in 0.05 M carbonate-bicarbonate buffer, pH 9.6

Carbonate-Bicarbonate Buffer capsules, (Cat. No. C3041).

Substrate: *o*-Phenylenediamine dihydrochloride (OPD) tablets, (Cat. No. P8287), 0.4 mg/mL in 0.05 M phosphate-citrate buffer, pH 5.0, containing 0.03% sodium perborate.

Phosphate-Citrate Buffer capsules with Sodium Perborate, (Cat. No. P4922).

### Dot Blot (chemiluminescent)

In an indirect chemiluminescence system using 10 ng peroxidase/dot and guinea pig anti-peroxidase as the primary antibody, this product was determined to have a dilution of 1:50,000-1:100,000 when used as

secondary antibody. Luminol plus enhancer was used as substrate.

### Immunohistochemistry

A working dilution of 1:400-1:800 was determined by indirect immunoperoxidase labeling using formalin-fixed, paraffin-embedded human pancreas and Guinea Pig Anti-Insulin, (Cat. No. I8510), as the primary antibody.

**Note**: Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

## Reference


1. Voller, A., et al., Bull. World Heath Organ., **53**, 55 (1976).


## Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

### Technical Assistance

Visit the tech service page at SigmaAldrich.com/techservice.

### Standard Warranty

The applicable warranty for the products listed in this publication may be found at SigmaAldrich.com/terms.

### Contact Information

For the location of the office nearest you, go to SigmaAldrich.com/offices.




A5545dat Rev 05/21