Anti-Guinea Pig IgG (whole molecule)-Peroxidase
produced in rabbit, affinity isolated antibody

Catalog Number 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
coupled 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
immuno-electrophoresis, 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 0.01% thimerosal as a preservative.

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
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.

Substrate: α-Phenylenediamine dihydrochloride (OPD) tablets, Catalog Number 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, Catalog Number 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**