

# Product Information

## **Anti-Horse IgG (whole molecule)-Peroxidase antibody produced in rabbit**

IgG fraction of antiserum, buffered aqueous solution

Catalog Number **A9292**

### **Product Description**

Anti-Horse IgG (whole molecule) is produced in rabbit using purified horse IgG as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Anti-Horse IgG (whole molecule) is conjugated to peroxidase using 0.2% glutaraldehyde.

Specificity of the Anti-Horse IgG (whole molecule)-Peroxidase is determined by immunolectrophoresis (IEP) versus normal horse serum and horse IgG.

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

### **Reagent**

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

Antibody concentration: 10-20 mg/ml  
Molar Ratio: 0.6-1.5

### **Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses.

### **Storage/Stability**

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. 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**

**Direct ELISA:** minimum titer 1:15,000  
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.<sup>1</sup>

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

Carbonate-Bicarbonate Buffer capsules are available as Catalog No. C3041.

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

Phosphate-Citrate Buffer with Sodium Perborate capsules are available as Catalog No. P4922.

**Dot Blot (chemiluminescent)** : In an indirect chemiluminescence system using 10 ng human IgG/dot and horse Anti-Human IgG as the primary antibody, this product was determined to have a minimum dilution of 1:100,000-1:200,000 when used as secondary antibody. 1,2-Dioxetane and enhancer was used as substrate.

**Immunohistology:** a minimum dilution of 1:150 was determined by an indirect assay using formalin-fixed, paraffin-embedded human tonsil and horse Anti-Human IgG 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.

### **References**

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

RC,DS,KAA,PHC 07/20-1