



PerkinElmer Life Sciences, Inc. ▶  
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## Technical Data Certificate of Analysis

Caution: For Laboratory Use. A research chemical for research purposes only.

**Anti-Mouse IgG (Goat), AP-Labeled      NEF821**  
**Anti-Mouse IgG (Goat), HRP-Labeled    NEF822**

### Storage Conditions

These products should be stored refrigerated at 4°C.

### Product Description

These antibodies were affinity purified from goat serum immunized with purified mouse IgG. Labeling with alkaline phosphatase (AP) was carried out utilizing a modified glutaraldehyde procedure. Labeling with horseradish peroxidase (HRP) was done using a periodate method. The molar enzyme/antibody protein ratio is 3.0 for NEF821 and 4.0 for NEF822. Each enzyme conjugate contains 1 mg of affinity purified antibody at 1 mg/ml.

These products are tested by immunoelectrophoresis, gel diffusion and ELISA techniques. They react specifically with mouse IgG and may recognize other immunoglobulin types that have light chains in common with IgG. Antibodies to mouse IgG may cross react with the immunoglobulins of other mammalian species if common binding sites are shared. No antibody is detectable to non-immunoglobulin serum components.

### Performance Characteristics

Different assay conditions require that serial dilutions of all reagents be performed to determine optimal working concentrations. Prepare working dilution immediately before use. Storage at a working dilution may result in enzyme inactivation and performance loss. Suggested starting dilutions are as follows:

Microwell Plate Immunoassays:	1:1,000 (1.0 µg/ml) for 1.0 mg/ml vial
Membrane Immunoassays:	1:5,000 (0.2 µg/ml) for 1.0 mg/ml vial
Histo/Cytochemical Procedures:	1:200 (5.0 µg/ml) for 1.0 mg/ml vial

NEF822 may be used in slide or membrane-based immunoassays as part of Tyramide Signal Amplification (TSA), in which tyramide linked detector molecules are deposited by HRP.

### Stability

**NEF821** Bovine serum albumin added as a protein stabilizer. This product is stable for a minimum of one year at 4°C.

**NEF822** Bovine serum albumin added as protein stabilizer. Do not use sodium azide in diluents. This product is stable for a minimum of one year at 4°C. Caution: Horseradish peroxidase is inactivated in the presence of hydrogen peroxide by reacting irreversibly with certain pollutants common in laboratory water supplies. If this product fails to perform as expected check water supply for enzyme inactivation.

### Related Products

NEL300	4CN Plus Chromogenic Substrate	NEF801	Anti-Human IgG (Goat), AP-Labeled
NEL938	DAB Substrate Solution	NEF802	Anti-Human IgG (Goat), HRP-Labeled
NEL937	BCIP/NBT Substrate Solution	NEF813	Anti-Rabbit IgG (Goat), Biotin-Labeled
NEL750	Streptavidin-HRP Conjugate	NEF811	Anti-Rabbit IgG (Goat), AP-Labeled
NEL751	Streptavidin-AP Conjugate	NEF812	Anti-Rabbit IgG (Goat), HRP-Labeled
NEF709	Antifluorescein-AP Conjugate	NEF823	Anti-Mouse IgG (Goat), Biotin-Labeled
NEF710	Antifluorescein-HRP Conjugate	NEL700/700A	TSA Biotin System
NEF803	Anti-Human IgG (Goat), Biotin-Labeled		

### Hazard Warning

This product is considered to be non-hazardous. Although the product is classified as nonhazardous, we strongly recommend using prudent laboratory practices: Avoid unnecessary contact, use of gloves, eye protection, lab coats, etc. when using this or any laboratory reagent.