Product Information

Anti-Human Lambda Light Chains (Bound and Free)

Peroxidase Antibody, Produced in Goat, Affinity Isolated Antibody, Buffered Aqueous Solution

A5175

Product Description

Antiserum is produced in goat using purified human lambda light chains as the immunogen. Affinity isolated antibody is obtained from goat anti-human lambda antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to lambda light chains (bound and free). Anti-Human Lambda antibody is conjugated to horseradish peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of the peroxidase conjugated Anti-Human Lambda is determined by ELISA. The conjugate is specific for human lambda light chains (bound and free) when tested against human IgA, IgG, IgM, Bence Jones Kappa and Lambda myeloma proteins.

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

Reagents

The conjugate is provided 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/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

1:35,000

We are now reporting lot specific information as a titer by direct ELISA rather than 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 human lambda light chain (bound) at a concentration of 5 µg/mL in 0.05 M carbonate-bicarbonate buffer, pH 9.6 Carbonate-Bicarbonate Buffer capsules are available as Cat. No. C3041.

Substrate: *o*-Phenylenediamine dihydrochloride (OPD), 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 with Sodium Perborate capsules are available as Catalog No. P4922.

Dot Blot

(Chemiluminescent)

A minimum dilution of 1:40,000 was determined by direct assay using 10 ng Bence Jones lambda per dot.

Immunohistology

A minimum dilution of 1:50 was determined in a direct assay using paraffin-embedded, formalin-fixed human tonsils.

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

Reference

1. Voller, A., et al., *Bulletin WHO*, **53**: 55 (1976).

Notice

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