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## DATA SHEET

### Kappa Probe

Catalog No.

Description

PR214-100

0.650 ml fluoresceinated oligonucleotide Kappa probe

**Analyte Specific Reagent. Analytical and performance characteristics are not established.**

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Doc. No. 932-PR214-100; Rev. No.C

Date of release: 20-Aug-2020

#### REAGENT SUPPLIED

1 x 0.650 ml of pre-diluted fluoresceinated oligonucleotide Kappa probe in hybridization solution.

#### STORAGE AND HANDLING

Store the probe at 2-8° C. Warm to room temperature immediately prior to use.

#### SPECIFICATIONS

The oligonucleotide probe detects Kappa light chain mRNA in formalin-fixed, paraffin-embedded human tissues by *in situ* hybridization.

#### DESCRIPTION

The light chains of immunoglobulin molecules have two antigenic types: kappa and lambda. A given immunoglobulin molecule contains two identical light chains, either kappa or lambda. Therefore, the clonal nature of any immunoglobulin-producing cell population can be determined by the light chain structure of the immunoglobulin that the cell produces.

#### QUALITY CONTROL

For Quality Control purpose, each lot of this probe is tested by *in situ* hybridization using formalin-fixed, paraffin-embedded tonsil as control tissue.

#### PRECAUTIONS:

The probe contains formamide. Formamide is classified as a teratogen. Pregnant workers should keep exposure to a minimum. Avoid inhalation, ingestion, and contact with unprotected skin. If skin contact occurs, wash thoroughly with soap and water.

For more information, refer to the Material Safety Data Sheet, which is available upon request

#### REFERENCES

1. Erber WN, Asbahr HD, and Phelps PN. *In situ* hybridization of immunoglobulin light chain mRNA of bone marrow trephines using biotinylated probes and the APAAP method. *Pathology* 25(1): 63-7, 1993.
2. Weiss LM, Movahed LA, Chen YY, Shin SS, Stroup RM, Bui N, Estess P, and Bindl JM. Detection of immunoglobulin light chain mRNA in lymphoid tissues using a practical *in situ* hybridization method. *Am J Pathol* 137(4): 979-88, 1990.
3. King G, Chmbers G, and Murray GI. Detection of immunoglobulin light chain mRNA by *in situ* hybridization using biotinyl tyramide signal amplification. *Mol Pathol* 52(1):47-50, 1999.
4. Pringle JH, Ruprai AK, Primrose L, Keyte J, Potter L, Close P, and Lauder I. *In Situ* hybridization of immunoglobulin light chain mRNA in paraffin sections using biotinylate or hapten-labeled oligonucleotide probes. *J Pathol* 162(3): 197-207.
5. Pan L, Happerfield LC, Bobrow LG, and Isaacson PG. *In situ* detection of human Ig light-chain mRNA on formalin-fixed and paraffin-embedded tissue sections using digoxigenin-labeled RNA probes. *Histochem J.* 25(1): 57-63, 1999.