ImmunoBioScience Corp. (IBSC) *DATA SHEET*Kappa light Chain, Polyclonal rabbit-anti-human

**Catalog number:** RP-4020-01 0.5 ml Concentrated IgG 2 mg/ml

RP-4020-02 1.0 ml Concentrated IgG 2 mg/ml

RP-4020-04 7.0 ml Prediluted for IHC IgG 8µg/ml

**Buffer** Protein A purified total IgG is supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: Human Kappa chain is a 25 kDa light chain present on all 5 immunoglobulin’s (IgA, IgG, IgM, IgD, and IgE) and is also present in free form. Kappa and Lambda light chains consists of a variable region and a constant region and can be easily be differentiated by the antigenic properties of a constant region. The ratio of Kappa to Lambda chain is 70:30; most of them are bound to heavy chains of immunoglobulin. This antibody is useful in identification of leukemias, plasmasacytomas and certain non-Hodgkin’s lymphomas. In normal human serum lambda chains are present 1.6-15.2 mg/ml. In multiple myeloma or B-cell malignancies these levels are increased. Higher amounts are also present in Bence Jones patient’s urine.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage**: 2-8°C

**Epitope:** not determined.

**Molecular weight of antigen:** 25 kDa

**Immunogen:** .Purified human Kappa light chain from human Bence Jones proteins.

**Species reactivity:** Human, monkey others not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human tonsil.

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears) 1:50-1:200 using streptavidin-Biotin system or polymer system. Prediluted antibody is used directly without dilution. FFPE tissue sections require antigen retriever (boiling tissue in 10 mM citrate pH 6.0 for 10-20 minutes, followed by cooling at RT for 15-20 minutes).

The optimum dilution should be determined by the individual lab.

**General References**

1. Korkolopoulou, P et.al. Leukemia and Lymphoma, 13: 151-159, 1994.
2. Schmid, C. et.al. Am. J. Pathology 94: 1281-1289, 1991.
3. Faure GC et.al. Am. J. Clin. Pathology 94: 571-575, 1990.
4. Picken MM et. al. Arthritis and Rheumatism. 33: 880-884, 1990
5. Faa G et. al. J of Hepatology. 12: 75-82, 1991.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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