

Product datasheet for AM33125PU-T

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Human Kappa Light Chain Mouse Monoclonal Antibody [Clone ID: L1C1]

Product data:

Product Type: Primary Antibodies

Clone Name: L1C1

Applications: FC, IHC, IP, WB

Recommended Dilution: ELISA: Quantification of immunoglobulins.

Flow Cytometry: 0.5-2.0 µg/106 cells.

Immunoprecipitation: 1-2 μg/500 μg protein lysate.

Western Blot: 0.5-1 µg/ml.

Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for

30 min at RT.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH

6.0, for 10-20 min followed by cooling at RT for 20 minutes.

Recommended Positive Control: 293T, Raji or hPBL cells, Tonsil or Spleen.

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human B-Lymphoma Cells.

Specificity: This monoclonal *L1C1 antibody* reacts with the Kappa Light chain of Human immunoglobulin

and shows no cross-reaction with Lambda Light chain or any of the five heavy chains. The kappa light chain itself is one of the two small polypeptide subunits of an antibody, the

other being lambda.

Antibodies are produced by the B-cells in lymphoid tissue. Each B lymphocyte expresses either lambda or kappa light chain but never both together. Hence, the kappa light chain antibody is a useful marker for identifying B lymphocytes expressing kappa light chain. The antibody reacts in immunohistology with paraffin embedded tissues and can be used to

detect kappa positive normal and malignant B cells.

Cellular Localization: Cell Surface, Cytoplasmic and Secreted.

Negative Species: Rat.





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Formulation: 10mM PBS

State: Purified

State: Liquid purified IgG fraction from Bioreactor Concentrate

Stabilizer: 0.05% BSA

Preservative: 0.05% Sodium Azide

Concentration: lot specific

Purification: Protein A/G Chromatography

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~22.5 kDa

Background: If a lymph node or other tissue of lymphoid origin is normal or benign, it should contain a

mixture of lambda and kappa light chain positive cells. However, if there is only one type, such as all kappa light chain positive, then they may have all been derived from a clonal population. This may be indicative of a pathological condition, including a malignancy. As such, the kappa light chain antibody has been reported to help identify leukemias, plasmacytomas and certain non-Hodgkin's lymphomas. The underlying mechanism of identification by the kappa light chain antibody in these various cancers would be their

expression of the kappa, but not lambda, light chain.

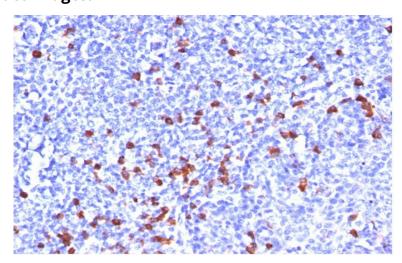
Hence, the kappa light chain antibody has an overall usefulness in identifying normal B-cells expressing kappa light chain as well as helping to identify malignancies or potentially other

pathologies characterized by a clonally derived kappa light chain positive population.

Antibody to the kappa light chain of immunoglobulin is reportedly useful in the identification of leukemias, plasmacytomas, and certain non-Hodgkin's lymphomas. Demonstration of clonality in lymphoid infiltrates indicates that the infiltrate is clonal and therefore malignant.



Product images:



Formalin-Fixed, Paraffin-Embedded Human tonsil stained with Kappa Antibody (Clone L1C1). Note cell membrane and cytoplasmic staining.