

Mouse Kappa Light Chain Monoclonal Antibody | anti-IGKC antibody

Kappa Light Chain (B-Cell Marker)

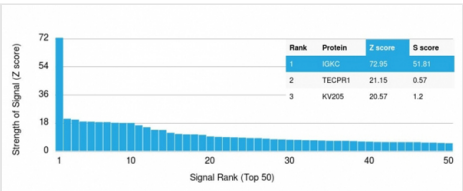
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214398	Mouse	Human. Others not known.	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Kappa Light Chain; Monoclonal Antibody; Kappa Light Chain (B-Cell Marker); HCAK1; Ig Kappa Chain C Region; IGKC; Immunoglobulin KM; anti-IGKC antibody

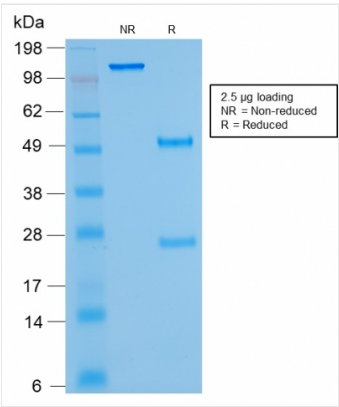
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	rKLC264
Specificity	This MAb is specific to kappa light chain of immunoglobulin and shows no cross-reaction with lambda light chain or any of the five heavy chains. In mammals, the two light chains in an antibody are always identical, with only one type of light chain, kappa or lambda. The ratio of Kappa to Lambda is 70:30. However, with the occurrence of multiple myeloma or other B-cell malignancies this ratio is disturbed. Antibody to the kappa light chain 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 malignant.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	117
Applicable Applications for anti-IGKC antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant full-length human Ig kappa chain
Cellular Localization	Cell Surface, Cytoplasmic and secreted
Hu-chromosome Location	2p11.2
Positive Control	293T, Raji or hPBL cells. Tonsil or Spleen
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



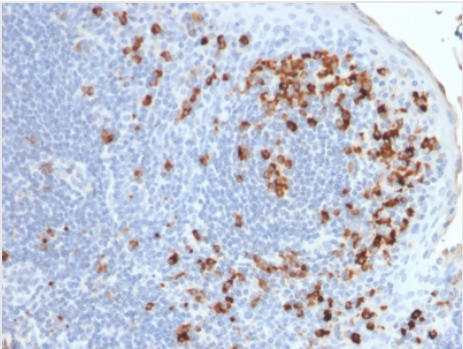
Application Data

Analysis of Protein Array containing >19, 000 full-length human proteins using Kappa Light Chain Mouse Monoclonal Antibody (rKLC/264) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis of Purified Kappa Light Chain Mouse Recombinant Monoclonal Antibody (rKLC264).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with Kappa Light Chain Mouse Recombinant Monoclonal Antibody (rKLC264).

ADDITIONAL INFORMATION

References	1.Takahashi H et. al. Pathol Res Prac 189:300-311 (1993).2.Momose H et. al. Hum Pathol. 23:1115-1119 (1992).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	857434459
NCBI GeneID	449609; 3514
UniProt Accession #	P01601; A0A0B4J1Z3
Molecular Weight	~22.5kDa
NCBI Official Full Name	Immunoglobulin kappa variable 1D-16
UniProt Protein Name	Immunoglobulin kappa variable 1D-16
UniProt Gene Name	IGKV1D-16

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.