

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11

info-de@origene.com

AM50289PU-S Monoclonal Antibody to Human Kappa Light Chain - Purified

Alternate names: HCAK1, IGKC, Ig Kappa Chain C Region, Immunoglobulin KM

Quantity: 0.1 mg

Concentration: 0.2 mg/ml

Uniprot ID: P01601

NCBI: 9606

GeneID: 3514

Host / Isotype: Mouse / IgG1

Recommended Isotype

Controls:

SM10P (for use in human samples), AM03095PU-N

Clone: HP6053 + L1C1

Immunogen: Purified Human Ig kappa chain (HP6053) and Human B-Lymphoma Cells (L1C1).

Genename: IGKC

Format: State: Liquid purified IgG fraction from Bioreactor Concentrate

Purification: Protein A/G Chromatography

Buffer System: 10mM PBS

Preservatives: 0.05% Sodium Azide

Stabilizers: 0.05% BSA

Applications: Flow Cytometry: $0.5-1 \mu g/10^6$ cells.

Western Blot: 0.5-1 µg/ml.

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

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

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Molecular Weight: ~22.5kDa



AM50289PU-S: Monoclonal Antibody to Human Kappa Light Chain - Purified

Specificity:

This MAb is specific to kappa light chain of immunoglobulin and shows no crossreaction 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.

Cellular Localization: Cell Surface, cytoplasmic and secreted.

Species: Human.

Other species not tested.

Store undiluted at 2-8°C. Shelf life: one year from despatch.

General Readings:

1. Takahashi H, Fujita S, Okabe H, Tsuda N, Tezuka F. Immunophenotypic analysis of extranodal non-Hodgkin's lymphomas in the oral cavity. Pathol Res Pract. 1993

Apr;189(3):300-11. PubMed PMID: 8332573.

2. Momose H, Chen YY, Ben-Ezra J, Weiss LM. Nodular lymphocyte-predominant Hodgkin's disease: study of immunoglobulin light chain protein and mRNA expression. Hum Pathol. 1992 Oct;23(10):1115-9. PubMed PMID: 1398641.

Pictures:

Storage:

Formalin-Fixed, Paraffin-Embedded Human tonsil stained with Kappa Light Chain Antibody Cat.-No AM50289PU (Clone HP6053+L1C1). Note cell membrane & cytoplasmic staining.

