## Datasheet for ABIN577472
# anti-kappa Light Chain antibody

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## Overview

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|---|---|
| Quantity: | 0.1 mg |
| Target: | kappa Light Chain |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This kappa Light Chain antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Western Blotting (WB) |

## Product Details

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| Immunogen: | Human IgG-kappa myeloma protein |
| Clone: | TB28-2 |
| Isotype: | IgG1 kappa |
| Specificity: | The antibody TB28-2 recognizes human Ig kappa light chains of both secreted and cell surface immunoglobulin. It detects also free kappa light chains. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified by protein-A affinity chromatography. |
| Purity: | > 95 % (by SDS-PAGE) |

## Target Details

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|---|---|
| Target: | kappa Light Chain |

## Target Details

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|---|---|
| Alternative Name: | Kappa light chains (kappa Light Chain Products) |
| Background: | Immunoglobulin classes share the same basic four polypeptide chain structure of two heavy chains (five heavy chains types) and two light chains (kappa, lambda, both having a molecular weight of 22.5 kDa). Kappa and lambda consist of a variable region and a constant region and can easily be differentiated by the antigenic properties of the constant region. The ratio of kappa to lambda is 70:30.,Immunoglobulin kappa, Igk |

## Application Details

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| Application Notes: | Flow cytometry: Recommended dilution: 1-5 µg/mL. Extracellular and intracellular staining. |
| Restrictions: | For Research Use only |

## Handling

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| Concentration: | 1 mg/mL |
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | **Do not freeze.** |
| Storage: | 4 °C |
| Storage Comment: | Store at 2-8°C. Do not freeze. |

## Publications

| | |
|---|---|
| Product cited in: | Jourdan, Caraux, De Vos, Fiol, Larroque, Cognot, Bret, Duperray, Hose, Klein: "An in vitro model of differentiation of memory B cells into plasmablasts and plasma cells including detailed phenotypic and molecular characterization." in: **Blood**, Vol. 114, Issue 25, pp. 5173-81, (2009) ( PubMed). |
| | Böttcher, Ritgen, Buske, Gesk, Klapper, Hoster, Hiddemann, Unterhalt, Dreyling, Siebert, Kneba, Pott et al.: "Minimal residual disease detection in mantle cell lymphoma: methods and significance of four-color flow cytometry compared to consensus IGH-polymerase chain reaction at initial staging and for ..." in: **Haematologica**, Vol. 93, Issue 4, pp. 551-9, (2008) ( PubMed). |

## Publications

Karandikar, Aquino, McKenna, Kroft: "Transient myeloproliferative disorder and acute myeloid leukemia in Down syndrome. An immunophenotypic analysis." in: **American journal of clinical pathology**, Vol. 116, Issue 2, pp. 204-10, (2001) (PubMed).

Nakamura, Kubagawa, Cooper: "Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 89, Issue 18, pp. 8522-6, (1992) (PubMed).

Kiyotaki, Cooper, Bertoli, Kearney, Kubagawa: "Monoclonal anti-Id antibodies react with varying proportions of human B lineage cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 138, Issue 12, pp. 4150-8, (1987) (PubMed).

## Images
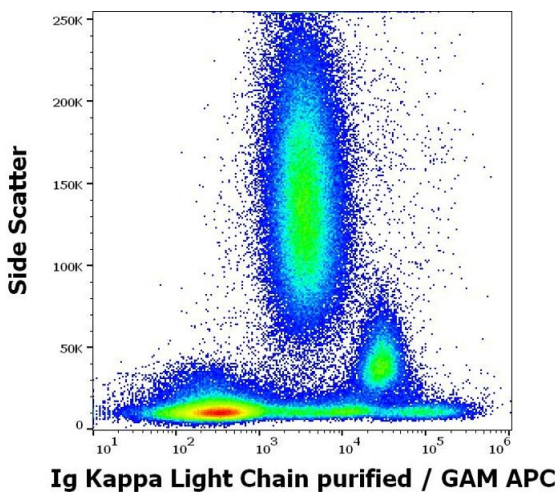


**Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human Ig Kappa Light Chain (TB28-2) purified antibody (concentration in sample 0.5 μg/mL, GAM APC).
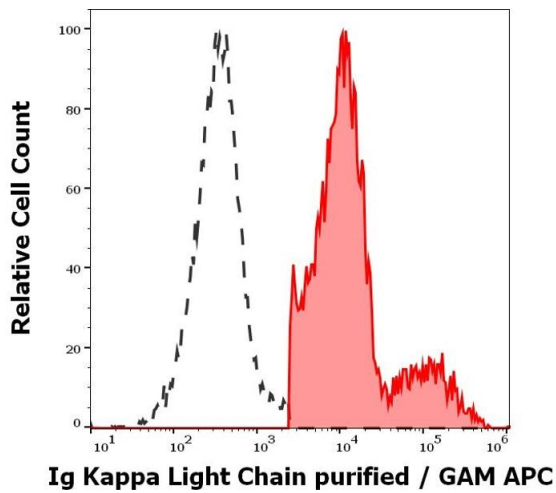


**Flow Cytometry**

**Image 2.** Separation of human Ig Kappa light chain positive lymphocytes (red-filled) from Ig Kappa light chain negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human Ig Kappa Light Chain (TB28-2) purified antibody (concentration in sample 0.5 μg/mL, GAM APC).