

Mouse Anti-Kappa Light Chain [HP6053]: MC0338, MC0338RTU7

Intended Use: For Research Use Only

Description: Each immunoglobulin molecule consists of two identical heavy chains and two identical light chains. There are two types of light chains designated as kappa and lambda. The gene rearrangement process that generates the immunoglobulin molecule results in either a productive kappa gene or a productive lambda gene. The mechanics of the rearrangement process normally produce approximately twice as many kappa-bearing cells as lambda. However this ratio loses during malignant transformation. The kappa light chain antibody labels kappa light chain expressing B lymphocytes and plasma cells. Other cells may also express kappa light chain due to nonspecific uptake of immunoglobulin. Individual B cells express either kappa or lambda light chains. Monoclonality is generally assumed to be evidence of a malignant proliferation. Paired with lambda, kappa light chain is useful in identifying monoclonality of lymphoid malignancies.

Specifications

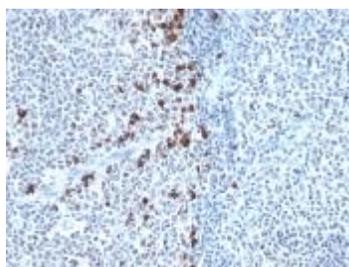
Clone: HP6053
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Localization: Membrane, cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., WB
 Package:

Description	Catalog No.	Size
Kappa Light Chain Concentrated	MC0338	1 ml
Kappa Light Chain Prediluted	MC0338RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Tonsil, lymph node
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-Kappa using DAB

References:

1. Versatile and on-demand biologics co-production in yeast. Cao J, et al. Nat Commun 9:77, 2018.
2. Automated pipeline for rapid production and screening of HIV-specific monoclonal antibodies using pichia pastoris. Shah KA, et al. Biotechnol Bioeng 112:2624-9, 2015.
3. Cell line-specific control of recombinant monoclonal antibody production by CHO cells. O'Callaghan PM, et al. Biotechnol Bioeng 106:938-51, 2010.

Doc. 100-MC0338
Rev. A