

Human Lambda Light Chain Mouse mAb

Human Lambda Light Chain Mouse mAb Catalog # AP94801

Product Information

Application WB, IHC-P, IHC-F, IF

Primary Accession
Reactivity
Human
Host
Mouse
Clonality
Monoclonal
Calculated MW
Physical State
POCG04
Human

Immunogen Purified native protein

Isotype IgG1

Buffer 0.01 M PBS (pH7.4). **SUBCELLULAR LOCATION** Cytoplasmic

SIMILARITY Contains 1 Ig-like (immunoglobulin-like) domain.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions All five immunoglobulin classes share the same basic four polypeptide chain

structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. 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.

Additional Information

Other Names Immunoglobulin lambda constant 1 {ECO:0000303 | PubMed:11872955,

ECO:0000303 | Ref.6}, Ig lambda chain C region MGC, Ig lambda-1 chain C region, IGLC1 {ECO:0000303 | PubMed:11872955, ECO:0000303 | Ref.6}

Dilution IHC-P=1:200-1000,WB=1:500-2000,IHC-F=1:200-1000,IF=1:200-1000

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name IGLC1 {ECO:0000303|PubMed:11872955, ECO:0000303|Ref.6}

Function Constant region of immunoglobulin light chains. Immunoglobulins, also

known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins- secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens (PubMed:20176268, PubMed:22158414). The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen (PubMed:17576170, PubMed:20176268).

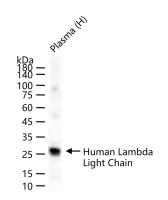
Cellular Location

Secreted. Cell membrane

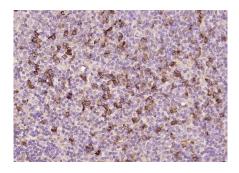
Background

All five immunoglobulin classes share the same basic four polypeptide chain structure of two heavy-chains and two light chains. There are five heavy chain types, and two light-chain types (Kappa and Lambda) both having a molecular weight of 22.5kDa. Any heavy-chain type can associate with either light-chain type, but on any immunoglobulin molecule both light-chains are of the same type. 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.

Images



25 ug total protein per lane of various lysates (see on figure) probed with Human Lambda Light Chain monoclonal antibody, unconjugated (AP94801) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in E sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Human Lambda chain) Monoclonal Antibody, Unconjugated (AP94801) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.