

Recombinant Anti-Human Ig lambda light chain Rabbit mAb

Catalog # AP95091

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P01701
Other Accession	P01842
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	12249

Additional Information

Other Names	Immunoglobulin lambda variable 1-51; Ig lambda chain V-I region BL2; Ig lambda chain V-I region EPS; Ig lambda chain V-I region NEW; Ig lambda chain V-I region NIG-64
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Human Ig lambda light chain protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	IGLV1-51 {ECO:0000303 PubMed:11872955, ECO:0000303 Ref.7}
Function	V region of the variable domain of immunoglobulin light chains that participates in the antigen recognition (PubMed:24600447). 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 immunoglobulin-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](#)).

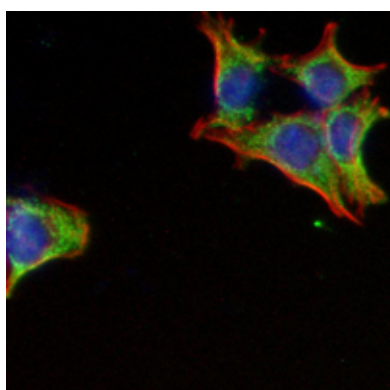
Cellular Location

Secreted. Cell membrane

Images



Western blot analysis of Human Ig lambda light chain expression in human plasma (A) whole cell lysates. (Predicted band size: 11 kD; Observed band size: 25 kD)



Immunofluorescent analysis of Human Ig lambda light chain staining in cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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