

Rabbit Kappa light chain Polyclonal Antibody | anti-IGKV1D-16 antibody

Kappa light chain Antibody

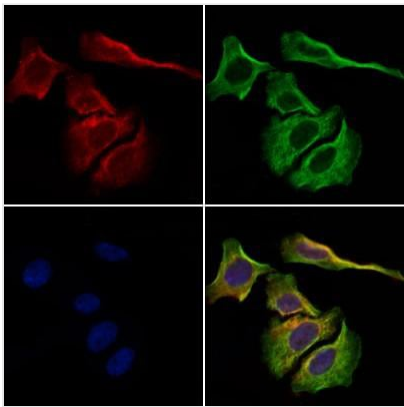
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329178	Rabbit	Human, Mouse, Rat	ELISA

PRODUCT SYNONYMS

Kappa light chain; Polyclonal Antibody; Kappa light chain Antibody; Ig kappa chain V-I region HK101; immunoglobulin kappa variable 1D-16; anti-IGKV1D-16 antibody

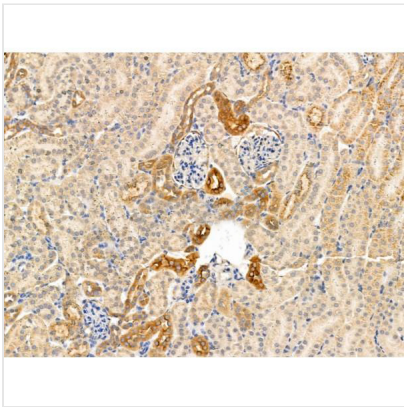
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Kappa light chain Antibody detects endogenous levels of total Kappa light chain.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	117
Applicable Applications for anti-IGKV1D-16 antibody	ELISA
Immunogen	A synthesized peptide derived from human Kappa light chain, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



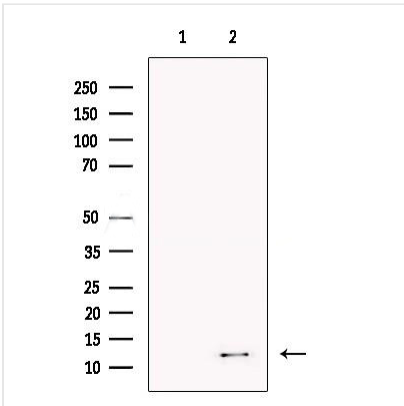
IF (Immunofluorescence)

AAA329178 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329178 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

AAA329178 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Human tonsil, using Kappa light chain Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-IGKV1D-16 antibody

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 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:20176268, PubMed:17576170).

Subcellular Location: Secreted. Cell membrane.

Subunit Structure: Immunoglobulins are composed of two identical heavy chains and two identical light chains; disulfide-linked.

NCBI AND UNIPROT INFORMATION

NCBI GI #	857434459
UniProt Accession #	P01601
Molecular Weight	Observed Molecular Weight: (Observed)12kD. Predicted Molecular Weight: (Calculated)13kDa.
NCBI Official Full Name	Immunoglobulin kappa variable 1D-16
UniProt Protein Name	Ig kappa chain V-ID region 16
UniProt Gene Name	IGKV1D-16
UniProt Entry Name	KV109_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/kappa-light-chain-antibody-elisa/329178>