

Datasheet for 609-1310**Human (kappa chain) Antibody Peroxidase Conjugated****Overview**

Description:	Goat Anti-Human κ (kappa chain) Antibody Peroxidase Conjugated - 609-1310
Item No.:	609-1310
Size:	1 mg
Applications:	ELISA
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	The anti-Human κ (kappa chain) Antibody detects the kappa chain subunit. Immunoglobulins are heterotetramers composed of 2 immunoglobulin heavy and 2 immunoglobulin light chains. The immunoglobulin light chain is the small polypeptide subunit of an antibody (immunoglobulin). In humans the light chains can be categorized into kappa type or lambda type and both are used to construct the antigen binding F(ab) region of an antibody along with the variable region of the heavy chain. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. Anti-Human IgG kappa is conjugated to HRP.
Synonyms:	Goat Anti-Human κ (kappa chain) Antibody Peroxidase Conjugation, Goat Anti-Human kappa chain HRP Conjugated Antibody
Host Species:	Goat
Specificity:	κ (kappa chain)
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Human
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Immunogen Type:	Native Protein
Immunogen:	Anti-Human kappa chain was produced by repeated immunization with human kappa light chain in goat.
Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase and anti-Goat Serum. Specificity was confirmed by ELISA minimal cross reactivity against other human heavy or light chain isotypes.

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Human k (kappa chain) Antibody has been tested by ELISA and is ideal for investigators who routinely perform titration assays, western-blot, immunoprecipitation and more generally immunoassays. Anti-human kappa chain Antibody has been assayed against 1.0 ug of human kappa light chain in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:2,000 to 1:8,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:77,000
IHC:	1:500 - 1:2,000
WB:	1:1,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Thimerosal
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

References

- Foller S et al. Optimum blue light exposure: a means to increase cell-specific productivity in Chinese hamster ovary cells. *Aool Microbiol Biotechnol.* (2024)

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