

Datasheet for 600-403-466**KLH Antibody Peroxidase Conjugated****Overview**

Description:	Anti-KLH (RABBIT) Antibody Peroxidase Conjugated - 600-403-466
Item No.:	600-403-466
Size:	100 µg
Applications:	ELISA
Reactivity:	KLH
Host Species:	Rabbit

Product Details

Background:	KLH Antibody, Peroxidase Conjugated, detects Keyhole Limpet Hemocyanin protein which is a very large, heterogeneous glycosylated protein consisting of subunits with a molecular weight of 350,000 and 390,000. KLH readily forms aggregates with molecular weights of 4,500,000-13,000,000 daltons. Each domain of a KLH subunit contains two copper atoms that together bind a single oxygen molecule (O ₂). When oxygen is bound to hemocyanin, the molecule takes on a distinctive transparent, opalescent blue color. The KLH protein is potentially immunogenic yet safe in humans and is therefore highly prized as a vaccine carrier protein. The large and highly glycosylated KLH protein cannot be reproduced synthetically. It is available only as a purified biological product from the Keyhole Limpet Megathura crenulata. KLH is being tested in a variety of cancer vaccines, including non-Hodgkins lymphoma, cutaneous melanoma, breast and bladder cancer.
Synonyms:	rabbit Anti-KLH antibody peroxidase conjugation, HRP conjugated rabbit Anti-KLH antibody, Keyhole Limpet Hemocyanin
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	KLH
--------------------	-----

Immunogen Type:	Native Protein
Immunogen:	KLH (Keyhole Limpet Hemocyanin)
Purity/Specificity:	Anti-KLH (RABBIT) Antibody Peroxidase Conjugated was prepared from monospecific antiserum by immunoaffinity chromatography using KLH 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, anti-Rabbit Serum, and KLH.

Application Details

Tested Applications:	ELISA
Application Note:	Anti-KLH Antibody Peroxidase Conjugated antibody has been tested by ELISA and is assayed against 1.0 ug of KLH in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) substrate for 30 minutes at room temperature. A working dilution of 1:15,000 to 1:60,000 is suggested for this product. Anti-KLH Antibody is suitable for western blotting to detect a single band of the expected apparent molecular weight and for ELISA. Peroxidase conjugated anti-KLH antibody is suitable for use with streptavidin reporter systems. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:400,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
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.

Images



Western Blot

Western Blot of Rabbit anti-KLH (Keyhole Limpet Hemocyanine) antibody. Lane 1: molecular weight. Lane 2: reduced KLH. Load: 1 µg. Primary antibody: KLH antibody (600-401-466) at 1:1000 for overnight at 4°C. Secondary antibody: HRP Goat-anti Rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: 1% BSA-TBS overnight at 4°C. Predicted/Observed size: 350-390 kDa, 350-390 kDa for KLH. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.