



## Datasheet for ABIN103381 anti-KLH antibody (HRP)



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	KLH
Reactivity:	Keyhole Limpet
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLH antibody is conjugated to HRP
Application:	ELISA, Western Blotting (WB)

#### Product Details

Immunogen:	KLH (Keyhole Limpet Hemocyanin Immunogentype:Native
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

#### Target Details

Target:	KLH
Abstract:	<a href="#">KLH Products</a>
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

## Target Details

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bind a single oxygen molecule (O<sub>2</sub>). 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: HRP, Keyhole Limpet Hemocyanin

## Application Details

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**Application Notes:** Anti-KLH Antibody Peroxidase Conjugated antibody has been assayed against 1.0 ug of KLH in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-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.

**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Restore with deionized water (or equivalent)

**Concentration:** 1.0 mg/mL

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** Gentamicin sulfate

**Handling Advice:** Do NOT add Sodium Azide!

**Storage:** 4 °C



### Western Blotting

**Image 1.** Western Blot of Rabbit anti-KLH (Keyhole Limpet Hemocyanine) antibody. Lane 1: molecular weight. Lane 2: reduced KLH. Load: 1  $\mu$ g. Primary antibody: KLH antibody 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.