



Datasheet for ABIN103377

## anti-KLH antibody



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### Overview

Quantity:	1 mg
Target:	KLH
Reactivity:	Keyhole Limpet
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLH antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

### Product Details

Immunogen:	KLH (Keyhole Limpet Hemocyanin) Immunogenotype:Native
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm
Purification:	This product 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-Rabbit Serum.
Sterility:	Sterile filtered

### Target Details

Target:	KLH
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## Target Details

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Abstract: [KLH Products](#)

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**Background:** KLH Antibody 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<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: Keyhole Limpet Hemocyanin, KLH, Anti-KLH antibody

## Application Details

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**Application Notes:** Anti-KLH Antibody is suitable for western blotting to detect a single band of the expected apparent molecular weight and for ELISA. Researchers should determine optimal titers for applications that are not stated below.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1.0 mg/mL

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

**Preservative:** Sodium azide

**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C

## Publications

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**Product cited in:** Dolezalová, Vojtšsek, Kovarik: "Epitope analysis of the human p53 tumour suppressor protein." in: **Folia biologica**, Vol. 43, Issue 1, pp. 49-51, (1997) ([PubMed](#)).

Bártková, Bártek, Lukás, Vojtšek, Stasková, Rejthar, Kovarík, Midgley, Lane: "p53 protein alterations in human testicular cancer including pre-invasive intratubular germ-cell neoplasia." in: **International journal of cancer. Journal international du cancer**, Vol. 49, Issue 2, pp. 196-202, (1991) ([PubMed](#)).

## Images

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### Western Blotting

**Image 1.** Western Blot of Rabbit anti-KLH antibody. Lane 1: KLH. Load: 10 µg. Primary antibody: KLH at 1:1000 in 1% BSA-TBS, overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: 1% BSA-TTBS for 30 min RT. Predicted/Observed size: 350-390 kDa, 350-390 kDa for KLH. Other band(s): none.