



Product Specification Sheet

**Keyhole limpet Hemocyanin (KLH)**

<b>Cat #</b> KLH51-R10,	<b>SIZE:</b> 10 mg	<input type="checkbox"/> Powder	<input type="checkbox"/> Liquid
<b>Cat #</b> KLH51-R100,	<b>SIZE:</b> 100 mg	<input type="checkbox"/> Powder	<input type="checkbox"/> Liquid

Antibodies to small peptide/haptens are generally raised by coupling to a large carrier proteins such as KLH (Keyhole Limpet Hemocyanin). KLH mol wt ranges 3-7.5 million. It is used for carrier protein as it offers plenty of free amino, carboxyl and cysteines for coupling various peptides or haptens.

Antibodies are produced to both KLH and the peptide/hapten. Anti-KLH may give non-specific signals in various immunoassays. Anti-KLH antibodies can be removed by solid phase immunoaffinity column chromatography over the KLH-Agarose affinity column or by adsorbing with KLH protein.

**Source**

KLH, isolated from the hemolymphs of the mollusk *Megathura crenulata*, belongs to a large family of giant respiratory proteins called hemocyanins, which are found in mollusks and arthropods. It is pale blue-gray powder. It contain 0.25% copper. It is supplied in powder in a buffer (5 mM BES, pH 6.5, 10 mM MgSO4). It is soluble in PBS at 5-10 mg/ml. Do not vortex vigorously as it may aggregate or precipitate. Gently add buffer and mix to dissolve. Slight turbidity will not affect its use for conjugation. It is also necessary to maintain Mg-concentration of >10 mM to keep diluted solution and prevent it from precipitation or aggregation.

**Form & Storage**

Supplied as lyophilized powder or in PBS solution containing 0.05% azide. Store at 4oC.

**General References:**

1. Harlow E and Lane D (1988) Antibodies: A lab, manual

**Other Fusion tag antibodies available from ADI**

Catalog#	ProdDescription
KLH11-G	Keyhole Limpet Hemocyanin (KLH)-Sepharose affinity gel for removing KLH antibodies
KLH11-G-5	Keyhole Limpet Hemocyanin (KLH)-Sepharose affinity gel for removing KLH antibodies
KLH12-M	monoclonal Anti-KLH (keyhole leimpet hemocyanin) Ascites
KLH13-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #3
KLH14-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #4
KLH15-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #5
KLH51-R10	Keyhole Limpet Hemocyanin (Megathura Crenulata) Carrier protein
KLH51-R100	Keyhole Limpet Hemocyanin (Megathura Crenulata) Carrier protein ELISA kits to detect antibodies to KLH
	Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, , HA-tag, and c-myc
	Anti-Rabbit IgG-HRP Conjugate and ECL Reagents
	<b>Western Blot Recycling Kit (Strips blots in 5 minutes)</b> and re-use the same blot with multiple antibodies

KLH51-R10-100                      71216A