

Product Data Sheet

**Cat#** 700-101

Keyhole Limpet (KLH, hemocyanin) coated ELISA Plates

**Size:** 5 plates/pk

Hemocyanins are oxygen-transporting proteins found in many arthropod and mollusc species. In hemocyanin, oxygen binding is mediated by binuclear copper-binding sites. A marine gastropod *Megathura crenulata*, the Californian giant keyhole limpet, has further had its hemocyanin be recognized for use in other areas of scientific research. It has been recognized as a potent immunoactivator, and therefore is widely used in research and clinical studies. Present application of Keyhole Limpet Hemocyanin (KLH) include: (a) its use as a highly immunogenic antigen in order to assess the immune competence of an organism and (b) its frequent use as a carrier of low molecular mass peptide and haptens, such as oligosaccharides, gangliosides or (glyco)peptides, designed to facilitate antibody production.

Antibodies made to small peptide/haptens are generally raised by coupling to a large carrier protein like KLH. 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. This ELISA assay can be used to check the levels of anti-KLH antibody in sera or and purified samples after antibody production. It is also possible to assess if antibodies to KLH were produced or not to assess the antigenic response of animals.

**Form and Storage**

Purified KLH from *Megathura crenulata* was used for coating the plates. KLH Coated ELISA plates, Cat# 700-101, are post-coated (pre-blocked) to further reduce non-specific binding, maintain stable activity, and to provide the convenience of direct use.

The plates (8 wells x 12 strips, with holder) are supplied individually packed in sealed pouches (5 plates per pk). Store in a dry place 2-8°C.

**Recommended usage**

KLH coated plates can be used to detect antibodies to KLH or peptide/protein KLH conjugate to assess antibody response. Various antisera should be diluted 1:100-100,000 and then tested on KLH coated plates. Anti-KLH antibodies from various animals (mouse, rat, goat, rabbit, sheep) are also available to serve as positive control. Control sera (non-immune) from appropriate animals should be used as -ve control (Also available from ADI).

**Related Material available for ADI**

Catalog#	ProdDescription	AntibodyType
KLH11-G	Keyhole Limpet Hemocyanin (KLH)-Agarose affinity gel for removing KLH antibodies	

KLH11-G-5	Keyhole Limpet Hemocyanin (KLH)-Agarose affinity gel for removing KLH antibodies	
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KLH12-M	monoclonal Anti-KLH (keyhole leimpet hemocyanin) Ascites	Mouse-Mono
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KLH13-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #3	Goat-Poly
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KLH14-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #4	Rabbit-Poly
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KLH15-S	Anti-KLH (keyhole limpet hemocyanin) antiserum #5	Chicken-Poly
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KLH51-R10	Keyhole Limpet Hemocyanin ( <i>Megathura Crenulata</i> ) Carrier protein	
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KLH51-R100	Keyhole Limpet Hemocyanin ( <i>Megathura Crenulata</i> ) Carrier protein	
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700-100-KLG	Goat Anti-KLH IgG (total) ELISA Kit, 96 tests, Quantitative	1 kit
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700-101	Keyhole Limpet Hemocyanin (KLH) coated ELISA plate (96 wells)	5 plates/pk
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700-110-KLR	Rabbit Anti-KLH IgG (total) ELISA Kit, 96 tests, Quantitative	1 kit
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700-120-KLC	Chicken Anti-KLH IgG (total) ELISA Kit, 96 tests, Quantitative	1 kit
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700-130-KLM	Human Anti-KLH IgG (total) ELISA Kit, 96 tests, Quantitative	1 kit
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700-140-KLM	Mouse Anti-KLH IgG (total) ELISA Kit, 96 tests, Quantitative	1 kit
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700-150-VAM	Mouse Anti- Vacmune/Immucothel (KLH) IgG (total) ELISA Kit, 96 tests	1 kit
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700-160-VAH	Human Anti- Vacmune/Immucothel (KLH) IgG (total) ELISA Kit, 96 tests	1 kit
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ELISA kits for the detection of Mouse Antibodies, Mouse IgG, IgA, IgM, IgE ELISA kits

**Western blot recycling kit** (Use the same blot/strip to probe with multiple antibodies) **Strip Antibodies in 5 minutes** (no heating or mercaptoethanol)

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**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444  
Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)