**product information**

**Background**  
Keyhole limpet hemocyanin (KLH) is a large cooper-containing protein consisting of subunits with MW of 400 kDa. It is found in the hemolymph of the sea mollusk *Megathura crenulata*. This extracellular respiratory protein has many immunostimulatory properties, including the ability to enhance the host’s immune response by interacting with T cells, monocytes, macrophages, and polymorphonuclear lymphocytes. Since its discovery, KLH has been used primarily as a carrier for vaccines and antigens and as adjuvant treatment in regimens such as antimicrobial therapy.

**Immunogen**  
Purified keyhole limpet hemocyanin (KLH), whole molecule,

**Host**  
Rabbit

**Clonality**  
Polyclonal

**Purity**  
Affinity purified serum in PBS, pH 7.4

**Format**  
Lyophilized

**Quantity**  
50 μg

**Reconstitution**  
For reconstitution add 50 μl of sterile water.

**Storage**  
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**  
ELISA (ELISA), Immunolocalization (IL), Western blot (WB)

**Related products**  
AS99 002 | anti-BSA rabbit antibody
AS02 023 | anti-BSA hen antibody

**Additional information**  
Protein present in plant vascular tissue (xylem and vascular cambium) is detected by anti-KLH antibodies (Höglund et al. 2002) which might lead to false results in IL when using anti-peptide antibodies generated to KLH-conjugated peptide.

**Application information**

**Recommended dilution**  
1: 10 000 (ELISA), 1: 10 000 (WB), 1: 1000 (IL)

**Expected | apparent MW**  
ca. 400 kDa/subunit

**Confirmed reactivity**  
*Megathura crenulata* - most commonly used carrier protein

**Not reactive in**  
No confirmed exceptions from predicted reactivity are currently known.

**Additional information**  
Antibody can be used as a negative control to determine if observed signal is generated by anti-KLH or anti-peptide antibodies. Due to its large size KLH protein will be very difficult to separate on SDS-PAGE.

**Selected references**  