

## Human anti-LukS-PV mAb (175)

**Catalog Number:** S200-004

**Lot:** 2204003

**Concentration:** 100 µg is supplied in PBS at 2.55 mg/mL.

**Description:** Pantone-Valentine leucocidin (PVL) is a cytotoxin released by *Staphylococcus aureus* and causes leukocyte lysis and tissue necrosis. PVL, is a bi-component exotoxin consisting of Leukocidin F (LukF) and Leukocidin S (LukS). Together, the two subunits join together to form beta barrel pores on the membrane of host immune cells such as white blood cells, monocytes and macrophages. The 33kDa structure of LukS has been solved in PDB 1T5R. Eliteimmune's LukS targeting mAb 175 can be used in toxin neutralization assays (TNA) and is also a useful research tool for ELISAs.

**Product Type:** Human Monoclonal Antibody IgG1 subtype

**Strain:** *Staphylococcus aureus*

**Synonyms:** Gamma-toxin, gamma toxin, gamma hemolysin, hemolysin, PVL, LukS-PVL, leucocidin, leucocidin S, Pantone-Valentine leucocidin, LukS, pore forming toxin, exotoxin

**Expression Host:** CHO

**Tag:** None

**Purity:** Antibody is purified using immobilized protein G.

**Applications:** ELISA and toxin neutralization assays (TNA). Specific conditions should be optimized by end user.

**Formulation:** PBS

**Storage:** 4°C for immediate use, ≤-20°C for long-term storage. Avoid repeated freeze thaw cycles.

**Shipped:** Dry Ice

**Intended Use:** For research use only. Not intended for human, therapeutic, or diagnostic use. Buyer may not modify, sell, or transfer product for commercial use without written permission from Eliteimmune.

### **Recommended Dilutions:**

**ELISA:** Assay-dependent dilution. The antibody can be used for capture of LukS-PV in an indirect ELISA assay.

**WB:** Not recommended for Western Blot because the antibody recognizes conformational epitope.

**Neutralization:** Assay-dependent dilution

**Cross Reactivity:** This antibody does not appear to cross react with *S. aureus* antigens Hla, LukF, SEA, or SEB, at the tested concentrations.

### **ELISA Data:**

ng/mL	OD 650 nm				
	Hla	LukF	LukS	SEA	SEB
100.000	0.086	0.110	3.706	0.066	0.072
10.000	0.086	0.095	3.466	0.064	0.266
1.000	0.083	0.073	3.511	0.060	0.066
0.100	0.082	0.084	3.225	0.068	0.067
0.010	0.101	0.088	2.300	0.064	0.125
0.001	0.091	0.080	0.525	0.084	0.074
0.000	0.107	0.158	0.121	0.090	0.072
0.000	0.119	0.092	0.084	0.108	0.071

*S. aureus* antigens were diluted to 2 µg/mL in PBS for plate coating. Anti-LukS-PV antibody 175 was serially diluted ten-fold from 100 µg/mL and incubated on the coated plates. Washed plates were detected with anti-human IgG-HRP conjugate and TMB substrate. OD650 is reported above.