



# IBT BIOSERVICES

4 Research Court, Suite 300  
Rockville, MD 20850  
877-411-2041  
Services@ibtbioservices.com

## Mouse anti-LukS-PV mAb (1D9)

### ELISA Data:

**Catalog #:** 0221-001

**Lot #:** 1312002

**Immunogen:** Recombinant LukS-PV (His tag)

**Description:** Mouse monoclonal antibody reactive to a conformational epitope of *Staphylococcus aureus* Pantone Valentine Leukocidin LukS subunit.

**Supplied:** 100 µg is supplied in PBS at a concentration of 3.98 mg/mL.

**Purification:** Antibody is purified using immobilized protein A.

**Clonality:** Monoclonal of the IgG<sub>2b</sub> isotype.

**Relevance:** The antibody can be used for detection of LukS-PV in an ELISA sandwich assay. It is not recommended for denatured Western blot detection due to the recognition of a partially conformational epitope of the LukS.

### Recommended Dilutions:

**ELISA:** Assay-dependent dilution. Internal QC demonstrates good capture of purified recombinant LukS-PV using this monoclonal antibody coated to a plate at 100 ng/well.

**WB:** It is not recommended to use this antibody for Western Blotting application due to weak detection of LukS-PV.

**Storage:** 2-3 weeks +4°C, -20°C long term

**Cross Reactivity:** As with most antibodies, this antibody may interact with Protein A in *S. aureus* culture supernatant via the Fc region. Other cross reactive epitopes are not known at this time.

Antigen Conc. (µg/mL)	OD 650	
	LukS-PV (His-tag)	MVP40 (His-tag)
1.0000	3.6910	0.1380
0.3333	3.6000	0.1420
0.1111	3.5800	0.1460
0.0370	3.4180	0.1450
0.0123	2.4840	0.1500
0.0041	1.0970	0.1520
0.0014	0.4310	0.1500
0.0005	0.2140	0.1510
0.0002	0.1680	0.1570
0.0001	0.1450	0.1510
0.0000	0.1441	

	Dilution	OD 650
	<i>S. aureus</i> USA300 6-hour culture supernatant	Neat
1:3		3.190
1:9		1.654
1:27		0.642
1:81		0.284
1:243		0.200
1:729		0.169

1D9 was used as Capture Antibody in a sandwich ELISA to detect purified LukS-PV or native LukS-PV from *S. aureus* USA300 6-hour culture supernatant. Purified LukS-PV was tested starting 1 µg/mL followed by three-fold serial dilutions and His-tagged recombinant VP40 was tested as a negative control. Bacterial supernatant was tested undiluted followed by three-fold serial dilutions. Secondary Antibody was a Polyclonal anti-PVL LukS antibody (cat# 04-0009). Detection was accomplished using an anti-rabbit IgG-HRP conjugate, followed by TMB substrate. OD650 are as reported.

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