

Sushi Polyclonal Antibody

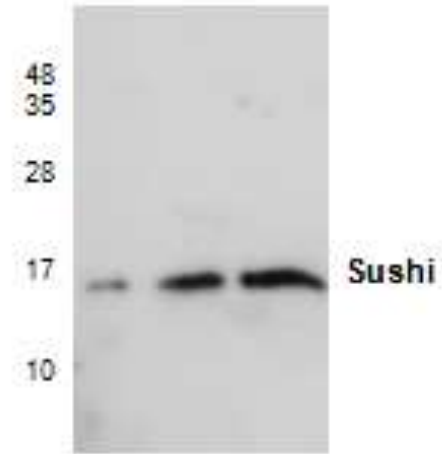
CATALOG NO:	5010-30T 30 µg (Trial size)
	5010-100 100 µg
HOST:	Rabbit
ISOFORM:	IgG
IMMUNOGEN:	Sushi domain in from E. coli
INTERNAL ID#:	BV- L103
PURIFICATION:	Affinity purified
MOLECULAR WEIGHT:	16.1 kDa
SPECIES:	All
FORM:	Liquid
FORMULATION:	0.5 mg/ml polyclonal antibody in PBS pH 7.2, containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.
STORAGE CONDITIONS:	Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

BACKGROUND: Sushi Peptide S3 is a trimer of one of the high endotoxin-binding domains, Sushi 3 (or S3) within Factor C, a lipopolysaccharide (LPS)-sensitive serine protease of the horseshoe crab (*Limulus Polyphemus*). S3 display detergent-like properties in disrupting LPS aggregates, with specificity for palmitoyl-oleoyl-phosphatidylglycerol (POPG) resulting from electrostatic and hydrophobic forces between the peptides and the bacterial lipids. The unsaturated nature of POPG confers fluidity and enhances insertion of the peptides into the lipid bilayer, causing maximal disruption of the bacterial membrane. In short, peptide S3 can bind to lipopolysaccharide (LPS) and inhibit the growth of Gram-negative bacteria without affecting mammalian cells. It has been shown that endotoxin activates Factor C based catalytic coagulation cascade resulting in the gelation of *Limulus* blood. This process is the basis of *Limulus* Amebocyte Lysate (LAL) endotoxin detection method.

SPECIFICITY: The antibody reacts with Sushi domain of Factor C. Recombinant Sushi (Cat # 7611) can be used as a positive control.

APPLICATION AND USAGE: The antibody can be used in Western Blot analysis (1-4 µg/ml). However, the optimal concentrations should be determined individually.

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of recombinant Sushi.
Lane 1: 55 ng
Lane 2: 110 ng
Lane 3: 165 ng

RELATED PRODUCTS:

- Sushi Peptide S3, Bacterial recombinant (Cat # 7611-20, 100, 1000)

