

## Product datasheet for **BM1091**

### **E. coli J5 LPS Mouse Monoclonal Antibody [Clone ID: 2D7/1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	2D7/1
Applications:	ELISA, IF, WB
Recommended Dilution:	<b>Immunofluorescence.</b> <b>ELISA:</b> (a 1 mg/ml solution has been used at dilutions of up to 1/1500). <b>Western Blotting.</b>
Reactivity:	Escherichia coli
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	<i>Escherichia coli</i> J5 cells.
Specificity:	The antibody recognizes <i>E. coli</i> J5 LPS. It has also been found to react with <i>K. pneumoniae</i> , <i>S. sonnei</i> and <i>S. typhimurium</i> .
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Background:**

Some form of LPS is a major component of the cell membrane of Gram negative bacteria, contributing greatly to the structural integrity of the bacteria, and protecting the membrane from certain kinds of chemical attack. LPS is an endotoxin, and induces a strong response from normal animal immune systems. LPS function has been under experimental research for several years due to its role in activating many transcriptional factors, which become active after stimulation with LPS. LPS also produces many types of mediators involved in septic shock.

The J5 mutant of E. coli lacks the enzyme uridine diphosphate glucose 4-epimerase and therefore produces an incomplete LPS, deficient in galactose and all the sugars distal to the central polymers. The 55 mutant has no O-specific chains and its endotoxin remains as the core LPS containing lipid A, N acetyl glucosamine, 2-keto-3-deoxyoctonate, heptose and glucose (a composition similar to that of the Rc strains of Salmonella).

**Synonyms:**

Escherichia coli, EHEC, EPEC, ETEC