

Product datasheet for **AM26150PU-N**

stxA2 Mouse Monoclonal Antibody [Clone ID: 11E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	11E10
Applications:	ELISA, FN, WB
Recommended Dilution:	Western blot: 1:10 as starting dilution. Inhibition of the biological activity of the toxin.
Reactivity:	Escherichia coli
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes the 2A subunit of Shiga-like toxin 2.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Product should be stored at 2-8 °C.
Stability:	Shelf life: one year from despatch.
Database Link:	P09385



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Background:

Shiga-like toxins (SLTs), are also called Verotoxins. Enterohemorrhagic Escherichia coli (EHEC) strains which are primarily of serotypes O157:H7, O26:H11, and O111:H8 have been incriminated as etiologic agents of hemorrhagic colitis and Hemolytic-uremic syndrome, a generalized disease characterized by acute renal failure, thrombocytopenia, and microangiopathic hemolytic anemia. There are several distinct E.coli SLTs. SLT-I and SLT-II are produced by EHEC.

SLT-I and Shiga toxin share >99% deduced amino acid sequence homology, whereas SLT-I and SLT-II share about 60% deduced amino acid sequence homology. SLT-I and SLT-II are antigenically distinct. Antibodies to SLT-II can also neutralize a variant of SLT-II (designated SLT-IIv) produced by strains of E.coli that cause edema. SLT-IIv is cytotoxic for Vero but not HeLa cells, distinguishing it from SLT-II.

The protein structure of the toxin consists of two domains: the A polypeptide that inhibits protein synthesis by targeting ribosomes, and the B polypeptide pentamer that binds to the eukaryotic cell receptor globotriaosylceramide (Gb3) leading to receptor-mediated endocytosis.

Synonyms:

SLT-2 A subunit, SLT-2a, SLT-IIa, stx2A, stxA2, Verotoxin 2 subunit A, Verocytotoxin 2 subunit A