



Mouse Anti-Clostridium Perfringens Type D epsilon Toxin monoclonal antibody, clone 4D6 (CABT-ZS5003)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects native un-cleaved ETX proto-toxin as well trypsin cleaved fragments that have higher electrophoretic mobility. Able to detect as little as 625pgs of recombinant N-terminal His-tagged epsilon mutant toxoid.
Target	C. Perfringens
Immunogen	Epsilon Toxoid (A single amino acid mutant of whole toxin)
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	4D6
Purification	Protein G purified
Conjugate	Unconjugated
Applications	WB Recommended Working Concentration: Western Blot: 0.5 µg/mL Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid

Concentration	Lot specific
Size	100 µg
Buffer	0.1 M Sodium Phosphate, pH 7.4, 0.15 M NaCl
Preservative	0.05% sodium azide
Storage	Long time storage is recommended at -20°C. Avoid repeated freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	The epsilon toxin is one of 12 protein toxins produced by <i>Clostridium perfringens</i> , a Gram positive, anaerobic spore-forming rod. There are five strains of <i>C. perfringens</i> , designated A through E. Each strain produces a unique spectrum of toxins. The epsilon toxin is made by types B and D. This toxin is a pore-forming protein; it causes potassium and fluid leakage from cells. In addition to the epsilon toxin, <i>C. perfringens</i> type D strains produce alpha toxin and type B strains produce alpha and beta toxins. <i>C. perfringens</i> type B causes severe enteritis in young calves, foals, lambs and piglets. Type D causes enterotoxemia in sheep and goats and, on rare occasions, in cattle. All five strains can infect wounds in any species.
Keywords	<i>Clostridium perfringens</i> ; <i>C. perfringens</i> ; <i>Clostridium</i> ; <i>C. perfringens</i> Neuraminidase protein; <i>Clostridium perfringens</i> N-acetyl-neuraminyl hydrolase protein; Neuraminidase; N-acetyl-neuraminyl hydrolase

GENE INFORMATION

Synonyms	<i>Clostridium perfringens</i> ; <i>C. perfringens</i> ; <i>Clostridium</i> ; <i>C. perfringens</i> Neuraminidase protein; <i>Clostridium perfringens</i> N-acetyl-neuraminyl hydrolase protein; Neuraminidase; N-acetyl-neuraminyl hydrolase
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