



HiResNb™ Alpaca Anti-V. cholerae serotype O1 Toxin HigB-2 Monoclonal Antibody, clone A5270 (DMAB-CS25008)

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

PRODUCT INFORMATION

Specificity	Vibrio cholerae serotype O1 higB-2
Target	V. cholerae serotype O1 Toxin HigB-2
Isotype	VHH
Source/Host	Alpaca
Species Reactivity	V. cholerae
Clone	A5270
Purification	Affinity purified
Conjugate	Unconjugated
Applications	ELISA
Format	Liquid
Size	100 µg, 1 mg
Buffer	10mM PBS (pH 7.5)
Preservative	None
Storage	Store at -20°C (Avoid freeze / thaw cycles).

BACKGROUND

Introduction

Vibrio cholerae codes for 13 toxin-antitoxin (TA) loci all located within the superintegron on chromosome II. The two higBA TA loci of V. cholerae encode functional toxins, HigB-1 and HigB-2, whose ectopic expression inhibits cell growth of Escherichia coli, and functional antitoxins, HigA-1 and HigA-2, which counteract the toxicity of the cognate toxins. Three hours of ectopic expression of the HigB toxins resulted in bacteriostasis without any detectable loss of cell viability. The HigB toxins inhibited translation by cleavage of mRNA. Efficient mRNA cleavage occurred preferentially within the translated part of a model mRNA and only when the mRNA was translatable.

Keywords

Vibrio cholerae; V. cholerae; V. cholerae higB-2; V. cholerae higB; V. cholerae higB2; V. cholerae HigB2 toxin; VcHigB2