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Datasheet for ABIN2452158 anti-TRH Toxin antibody

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Overview

Quantity:	100 µg
Target:	TRH Toxin
Reactivity:	Vibrio parahaemolyticus
Host:	Rabbit
Clonality:	Polyclonal
Application:	Dot Blot (DB), Immunoprecipitation (IP), Western Blotting (WB)
Product Details	
Immunogen:	TRH toxoid and toxin purified from culture medium of V. parahemolyticus TRH+ strain.
Purification:	IgG fraction purified from the rabbit anti-TRH serum by salting out, ion-exchange
	chromatography
Sterility:	Sterile filtered
Target Details	
Target:	TRH Toxin
Background:	Many Vibrio parahemolyticus isolated as a cause of food poisoning, produce toxin called
	hemolysin, and this is the main cause of illness. The hemolysin of V. parahemolyticus mainly
	interacts with an intestinal tract or the heart, produces diarrhea by enterotoxicity, and also there
	are severe cases of making a patient die by cardiotoxicity. Two kinds, heat-resistant hemolysin
	(TDH, thermostable direct hemolysin) and heat-resistant toxin related hemolysin (TRH, TDH-
	related hemolysin), are known as hemolysins of V. parahemolyticus. Among these, TDH is
	known for many years and has been studied more extensively. In order to distinguish whether it

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	is the V. parahemolyticus that produces TDH, samples are grown on the Agatsuma medium
	(blood agar which is added with mannitol), and judged by whether a hemolysis is observed or
	not. This hemolysis was one of the examining methods, which is called Kanagawa
	phenomenon to judges whether it is pathogenic V. parahemolytica. However, it became clear
	that the food poisoning by the V. parahemolyticus of Kanagawa-phenomenon negativity was
	discovered, and this organism did not produce TDH, but it produced TRH. Moreover, since the
	Kanagawa phenomenon sensitivity is not so high, the immunological technique employing
	antibody against toxin is used together for the judgment of pathogenicity of V.
	parahemolyticus. TRH is the heat labile toxin protein of molecular weight 21.1 kDa (189 aa).
	Homology of TDH (21.3 kDa, 189 aa) with TRH is about 60 % (reference 1 and 2), and shows
	partial antigenic similarities. Susceptibility of the blood cells of various animals to TRH differs
	greatly, and TRH shows more than 100 times in rabbit skin capillary permeability activity than
	TDH.
UniProt:	P19249

Application Details

Application Notes:	1) Western blotting: 2,000~10,000 time dilution
	2) Immunoprecipitation
	3) ELISA (assay dependent)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol. Azide-, carrier-free.
Preservative:	Azide free
Storage:	-20 °C
Storage Comment:	Upon arrival centrifuge briefly and store at -20 C.

Publications

Product cited in:

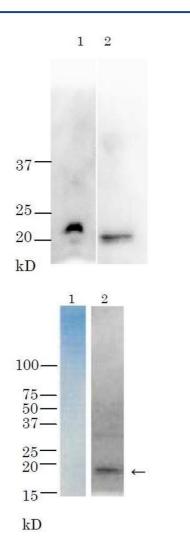
Nishibuchi, Taniguchi, Misawa, Khaeomanee-lam, Honda, Miwatani: "Cloning and nucleotide

sequence of the gene (trh) encoding the hemolysin related to the thermostable direct hemolysin

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Honda, Ni, Miwatani: "Purification and characterization of a hemolysin produced by a clinical isolate of Kanagawa phenomenon-negative Vibrio parahaemolyticus and related to the thermostable direct hemolysin." in: **Infection and immunity**, Vol. 56, Issue 4, pp. 961-5, (1988) (PubMed).

Images



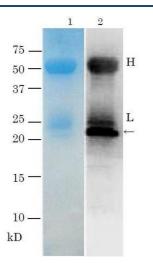
Western Blotting

Image 1.

Western Blotting

Image 2.

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Western Blotting

Image 3.

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