

Product datasheet

Anti-Cholera Toxin antibody ab51572

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概述

产品名称	Anti-Cholera Toxin抗体
描述	兔多克隆抗体to Cholera Toxin
特异性	ab51572 is specific for the b subunit of Cholera Toxin.
经测试应用	适用于: ELISA
免疫原	Purified Cholera toxin (beta subunit).

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
存储溶液	Preservative: 0.1% Sodium Azide Constituents: 0.01M PBS, pH 7.2
纯度	IgG fraction
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab51572** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ELISA		

应用说明	ELISA: Titre 1/2000. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.
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相关性

The holotoxin (cholera toxin) consists of a pentameric ring of B subunits whose central pore is occupied by the A subunit. The A subunit contains two chains, A1 and A2, linked by a disulfide bridge. The B subunit pentameric ring directs the A subunit to its target by binding to the GM1 gangliosides present on the surface of the intestinal epithelial cells. It can bind five GM1 gangliosides. It has no toxic activity by itself. After binding to gangliosides GM1 in lipid rafts, through the subunit B pentamer, the holotoxin and the gangliosides are internalized. The holotoxin remains bound to GM1 until arrival in the ER. The A subunit has previously been cleaved in the intestinal lumen but the A1 and A2 chains have remained associated. In the ER, the A subunit disulfide bridge is reduced, the A1 chain is unfolded by the PDI and disassembled from the rest of the toxin. Then, the membrane-associated ER oxidase ERO1 oxidizes PDI, which releases the unfolded A1 chain. The next step is the retrotranslocation of A1 into the cytosol. This might be mediated by the protein-conducting pore SEC61. Upon arrival in the cytosol, A1 refolds and avoids proteasome degradation. In one way or another, A1 finally reaches its target and induces toxicity.

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