

Clostridium difficile (Toxin A) Antibody

Mouse Monoclonal Antibody [Clone 253/422]

Catalog No	Format	Size
MSM1-202-P0	Purified Ab with BSA and Azide	200ug/ml
MSM1-202-P1	Purified Ab with BSA and Azide	200ug/ml
MSM1-202-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Immunofluorescence (IF)	1-3ug/ml

Product Details	
Clone	253/422
Gene Name	tcdA
Immunogen	C. difficile Toxin A
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	308kDa (Toxin A)
Cellular Localization	Host cell membrane, Host cytoplasm, Host cytosol, Host endosome membrane, Secreted
Species Reactivity	Clostridium Difficile
Positive Control	Clostridium difficile extract or infected cells. Tissue.

**Optimal dilution for a specific application should be determined.*

Product Images for Clostridium difficile (Toxin A) Antibody

Specificity & Comments

This MAb reacts with C. difficile Toxin A, but not with Cholera subunit a, Cholera toxin, Pseudomonas aeruginosa exotoxin A, H-LT, P-LT. Clostridium difficile is a major nosocomial pathogen that causes antibiotic- associated colitis. Clostridium difficile mediates inflammatory diarrhea by releasing two large protein enterotoxins (Toxin A and Toxin B) that are able to disrupt intestinal epithelial cells via their transferase activity and ability to monoglucosylate members of the Rho family. Clostridium difficile Toxin A is a toxin that is composed of 39 repeats that are responsible for binding to intestinal epithelial cell surface carbohydrates. Clostridium difficile Toxin A causes significant apoptosis of colonocytes which contributes to the formation of ulcers and pseudo-membranes in a pathway that involves p38-dependent activation of p53 and induction of p21, leading to cytochrome c release and caspase-3 activation through Bak activation.

Known Applications & Suggested Dilutions

ELISA (For coating use Ab at 1-5ug/ml, order Ab without BSA) | Immunofluorescence (1-2ug/ml) | Optimal dilution for a specific application should be determined.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.