PRODUCT SPECIFICATION



HYB 278-01 Anti Clostridium tetani toxin (Tetanus toxin, toxoid)

Mouse monoclonal antibody

OVERVIEW	Product Name	HYB 278-01 Anti Clostridium tetani toxin (Tetanus toxin, toxoid)		
	Article No.	109999 (0.2 mL), 101000 (1.0 mL)		
	Clone ID	5.1B8		
	Subclass	IgG1 / Kappa		
	Specificity	HYB 278-01 binds specifically to both tetanus toxin and tetanus toxoid.		
	Species Reactivity	Clostridium tetani		
	Epitope Specificity	The epitope specificity of HYB 278-01 differs from that of HYB 278-10, HYB 278-14, HYB 278-15, and HYB 278-17 determined by competitive ELISA. HYB 278-01 and HYB 278-21 has overlapping epitope binding sites as determined by competitive ELISA, where HYB 278-21 inhibits the binding of HYB 278-01.		
	Immunogen	Tetanus toxoid (Tetanus toxin treated with formaldehyde for detoxification).		
	Fusion Partner	X63-Ag8.653.		
	Culture Medium	Dulbecco's modified Eagle's medium with 10 % fetal calf serum		
TESTED APPLICATION	Method		Usability	References
	Enzyme linked immunosorbent assay (ELISA)		Yes	In house analysis
PRODUCT SPECIFIC INFORMATION	HYB 278-01 is useful in ELISA with tetanus toxin/toxoid directly coated onto the microtiter well.			
	In an in-vivo mouse bioassay of tetanus antitoxin activity, HYB 278-01 does not neutralize tetanus toxin efficiently enough to protect mice against lethal doses of tetanus toxin.			
PROPERTIES	Conjugation:	Unconjugated		
	Form	Liquid		
	Preparation:	Protein-A		
	Concentration:	1 mg/mL \pm 10%, based on A _{280.} See Certificate of Analysis for details.		
	Solvent:	PBS, pH 7.2 – 7.4		
			Store at ≤ - 18 ºC.	

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TARGET	Target Information:	<i>Clostridium tetani</i> is a gram-positive, motile bacteria found in soil and animal faeces. <i>C. tetani</i> produces the potent exotoxin Tetanus toxin, which causes tetanus (lockjaw) in humans.
		Tetanus toxin acts by inhibiting neurotransmitter release leading to chronic muscle contraction, which can eventually cause respiratory failure.
		Tetanus Toxin is synthesized as a single 150 kDA polypeptide chain, which is cleaved into the N-terminal 50 kDA light (L) chain and the 100 kDA C-terminal heavy (H) chain that are connected through an interchain disulfide bond. To enhance the immune response Tetanus toxoid is often used as a carrier for compounds of poor immunogenicity.
		Tetanus toxoid is used as a vaccine to prevent tetanus or to help boost the immune response to other vaccines. In addition to being a potent antigen, tetanus toxoid is a useful carrier protein for making compounds of poor immunogenicity immunogenic.
REFERENCES		

Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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