

PRODUCT SPECIFICATION

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HYB 278-15 Anti *Clostridium tetani* toxin (Tetanus toxin, toxoid) *Mouse monoclonal antibody*

OVERVIEW	Product Name	HYB 278-15 Anti <i>Clostridium tetani</i> toxin (Tetanus toxin, toxoid)		
	Article No.	101005 (0.2 mL), 101006 (1.0 mL)		
	Clone ID	3F6		
	Subclass	IgG1 / Kappa		
	Specificity	HYB 278-15 binds specifically to both tetanus toxin and tetanus toxoid.		
	Species Reactivity	<i>Clostridium tetani</i>		
	Epitope Specificity	The epitope specificity of HYB 278-15 differs from that of HYB 278-01, HYB 278-10, HYB 278-14, HYB 278-17 and HYB 278-21 as determined by competitive ELISA.		
	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 278-15 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 278-15 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 ± 10%, based on A ₂₈₀ . See Certificate of Analysis for details.		
	Solvent:	PBS, pH 7.2 – 7.4		
	Storage information:	Store at ≤ - 18 °C.		

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TARGET	<p>Target Information:</p> <p><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.</p> <p>Tetanus toxin acts by inhibiting neurotransmitter release leading to chronic muscle contraction, which can eventually cause respiratory failure.</p> <p>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.</p> <p>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.</p>
REFERENCES	

Conditions

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

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