

**Anti-*Clostridium tetani* toxoid (tetanus toxoid)  
Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO. **HYB 278-01**

PRESENTATION  
 Preparation: Protein-A purified  
 Content: Available in 200 µL and 1 mL volumes, 1 mg/mL  
 Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide  
 Storage: In the dark at 4-8°C

ANTIGEN  
*Clostridium tetani* is a Gram-positive, motile bacterium found in soil and animal feces. Toxigenic strains of *C. tetani* contain a plasmid encoding the potent exotoxin which causes tetanus (lockjaw). The toxin is synthesized as a single 150 kDa protein chain which is cleaved ("nicked") into a 100 kDa heavy chain (fragment B) and a 50 kDa light chain (fragment A) connected by a disulfide bridge. Tetanus toxoid is produced by prolonged incubation of the toxin with formaldehyde and lysine, and is often used as a carrier for compounds of poor immunogenicity.

IMMUNOGEN  
 Tetanus toxoid adsorbed to aluminum hydroxide gel

SPECIFICITY  
 HYB 278-01 binds to both tetanus toxin and tetanus toxoid

EPI TOPE SPECIFICITY  
 Not determined

REACTIVITY  
 HYB 278-01 does not neutralize tetanus toxin efficiently enough to protect mice in the *in-vivo* test of tetanus antitoxin activity.

CULTURE MEDIUM  
 RPMI 1640 with 10% fetal calf serum

FUSION PARTNER  
 X63-Ag8.653

IMMUNIZATION  
 Female CF1 x BALB/c mice immunized by intraperitoneal injection

Method	Usability	Dilution guideline	References
ELISA	Yes	1/8000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.2 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

**CONDITIONS**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.