

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

Subclass: IgG1/k

PRODUCT NO.	HYB 278-17
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	<i>Clostridium tetani</i> is a Gram-positive, motile bacterium found in soil and animal feces. Toxigenic strains of <i>C. tetani</i> 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 278-17 binds to both tetanus toxin and tetanus toxoid
EPITOPE SPECIFICITY	Epitope specificity differs from that of HYB 278-14 and HYB 278-15 as determined by competitive ELISA.
REACTIVITY	HYB 278-17 neutralizes tetanus toxin efficiently enough to protect mice in the <i>in-vivo</i> 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

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1/2000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 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.