

**Anti *Corynebacterium diphtheriae* toxoid (Diphtheria toxoid)  
Mouse Monoclonal Antibody**Subclass: IgG<sub>1</sub>/κ

PRODUCT NO.	<b>HYB 123-05</b>																
PRESENTATION	Preparation: Protein-A/G purified Content: 1 ml, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide Storage: In the dark at 4-8°C																
ANTIGEN	<b><i>Corynebacterium diphtheriae</i></b> is a gram-positive, nonmotile bacteria found in soil and animal feces. <i>C. diphtheriae</i> infect the epithelial cells of the upper respiratory tract from where they produce and secrete a potent toxin. This toxin is absorbed and disseminated through lymph channels and blood to the susceptible tissues of the body.																
IMMUNOGEN	Purified and formaldehyde treated diphtheria toxin from a culture of <i>Corynebacterium diphtheriae</i> subsp. <i>intermedius</i> Park-Williams no. 8.																
SPECIFICITY	HYB 123-05 reacts specifically with <b><i>Corynebacterium diphtheriae</i></b> toxoid and toxin in a neutralizing manner (1). Neutralisation was determined in a VERO cell toxin neutralisation assay.																
EPI TOPE SPECIFICITY	Not determined																
REACTIVITY	HYB 123-05 reacts strongly with <b><i>Corynebacterium diphtheriae</i></b> toxoid. HYB 123-05 detects <b><i>Corynebacterium diphtheriae</i></b> toxoid in sandwich ELISA in combination with a polyclonal antibody against the toxoid as capture antibody (1). Strong reaction is also seen in ELISA with <b><i>Corynebacterium diphtheriae</i></b> toxoid coated directly onto the microtiter well.																
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum																
FUSION PARTNER	X63-Ag8.653.																
IMMUNIZATION	Female BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) <sub>3</sub>																
APPLICATION	<table border="1"><thead><tr><th>Method</th><th>Usability</th><th>Dilution guideline</th><th>References</th></tr></thead><tbody><tr><td>ELISA</td><td>Yes</td><td>1:35,000</td><td>1</td></tr><tr><td>Immunoblotting</td><td>Not determined</td><td></td><td></td></tr><tr><td>Immunohistochemistry</td><td>Not determined</td><td></td><td></td></tr></tbody></table>	Method	Usability	Dilution guideline	References	ELISA	Yes	1:35,000	1	Immunoblotting	Not determined			Immunohistochemistry	Not determined		
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REFERENCES	1. Nielsen PB, Koch C, Friis H, Heron I, Prag J, Schmidt J (1987) Double-antibody sandwich enzyme-linked immunosorbent assay for rapid detection of toxin-producing <i>Corynebacterium diphtheriae</i> . <i>J Clin Microbiol</i> 25:1280-1284.																

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.5 - 2 µg/ml. Users should determine the optimal dilutions for their own purposes.

**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.