



## Anti Chloroquine Mouse Monoclonal Antibody

Subclass: IgG<sub>2a</sub>/κ

PRODUCT NO.	<b>HYB 317-01</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	Chloroquine is the prototype anti malarial drug, most widely used to treat all types of malarial infections. It is also the cheapest, time tested and safe anti malarial agent. Chloroquine is a hapten of molecular weight 158.29 g/mol. The quinoline moiety of the chloroquine molecule is the same as for many other antimalarial drugs, but the sidechain is unique.
IMMUNOGEN	2-amino-5-diethylaminopentane coupled to immunogenic carrier protein
SPECIFICITY	HYB 317-01 has specificity for chloroquine and can be used for chloroquine quantification in human serum or plasma with a detection limit of app. 20 ng/ml.
EPITOPE SPECIFICITY	HYB 317-01 has specificity for the non-quinoline-sidechain of chloroquine
REACTIVITY	HYB 317-01 is able to distinguish chloroquine from the metabolite desethylchloroquine and exhibits no crossreactivity to other antimalarial drugs.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	X63-Ag8.653.
IMMUNIZATION	Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) <sub>3</sub>
APPLICATION	

Method	Usability	Dilution guideline	References
ELISA	Yes	1:30,000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody on antigen coated directly onto the microtiter well. Users should determine the optimal dilutions for their own purposes.

REFERENCES	<ol style="list-style-type: none"> <li>Rowell V, Rowell FJ, Baker A, Laurie D, Sidki AM (1988) A specific ELISA method for determining chloroquine in urine or dried blood spots. Bull World Health Organ 66:211-217.</li> <li>Shenton FC, Bots M, Menon A, Eggelte TA, de Wit M, Greenwood BM (1988) An ELISA test for detecting chloroquine in urine. Trans R Soc Trop Med Hyg 82:216-220.</li> <li>Escande C, Chevalier P, Verdier F, Bourdon R (1990) Sensitive radioimmunoassay and enzyme-linked immunosorbent assay for the simultaneous determination of chloroquine and its metabolites in biological fluids. J Pharm Sci 79:23-27.</li> </ol>
------------	---

### 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.