Order Information

Description:	Mouse anti-HIV p24
Catalogue#:	603-410
Lot#:	See the label
Size:	100 ug/200 ul
Host:	Mouse
Clone:	ABM026
Isotyping:	IgG1.κ
Application:	ELISA, FC; RIA, EIA
Reactivity:	Hu

Mouse anti-HIV p24 Monoclonal Antibody

Synonym: HIV p24, Gag

SPECIFICATIONS AND CLONE INFORMATION:

CLONE NUMBER: ABM026
DESCRIPTION: IgG1.κ
SPECIFICITY: HIV p24
AFFINICITY CONSTANT: $2x10^9$ L/Mol
IMMUNOGEN: HIV1 lysate
LYMPHOCYTE STRAIN: Babl/c mouse
MYELOMA: P3x63 Ag 8.653

IMMUNIZATION PROCEDURE:
100ul of emulsion, mixed with equal volume of HIV1 lysate solution and Freund complete adjuvant was injected by using the intracutaneous injection method to each balb/c mouse, followed by boost-inject every 2 to 3 weeks with emulsion; the mice with high titer was chosen for the fusion procedure.

FUSION PROCEDURE
Fusion was performed by addition of chemical fusion reagent PEG to the mixture of spleen cells and myeloma cells at a ratio 5:1; Seeding the cell suspension to 96 well cell culture plates and selected according to principle of HAT drug blocking the de novo synthesis of nucleotides.

SCREENING METHOD:
EIA method is used for clone screening, in which recombinant HIV p24 conjugated for the screening of positive clones.

TARGET ANTIGEN:
HIV p24 Purity>90%

HYBRIDOMA CLONING HISTORY:
The clone was screened from a total of four 96 well cell culture plate and was subcloned twice by using EIA method. Both supernatant and purified IgG from ascites were evaluated by the method of EIA. Further evaluation was accomplished by applying purified IgG to the EIA test against normal human sera and HIV p24 positive sera specimens; no cross reaction was found with HBeAg , HBsAg, HBcAg, and HCV

PURIFICATION METHOD:
Protein A affinity purification eluted according to the isotyping IgG1.κ.

REFERENCES:
Forster SM, et al. Decline of anti-p24 antibody precedes antigenaemia as correlate of prognosis in HIV-1 infection. AIDS. 1(4):235-40, 1987.
Lane DP and EB Lane, A rapid antibody assay system for screening hybridoma cultures, J. Immunol. Methods, 47: 303-307, 1981.

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