ADVANCED TARGETING SYSTEMS

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Antibody to FLAG peptide IgG1/kappa
MOUSE MONOCLONAL

Catalog Number:	AB-450
Quantity:	500 micrograms, 1 milligram
Format:	PBS with 50% glycerol
Host:	Mouse
Isotype:	IgG1/kappa
Clone:	NYRFLAG
Immunogen:	FLAG-conjugated proteins

Background:
The fusion tag FLAG consists of eight amino acids (AspTyrLysAspAspAspAspLys) including an enterokinase-cleavage site. FLAG is specifically designed for immunoaffinity chromatography allowing elution under non-denaturing conditions. Several antibodies against this peptide have been developed. One example is antibody M1, which binds the peptide in the presence of bivalent metal cations, preferably Ca2(+). Bound proteins are eluted by chelating agents. Another elution strategy is competitive elution with excess of free FLAG peptide. The FLAG peptide purifies and detects recombinant fusion proteins. FLAG peptide is useful in western blotting, immunocytochemistry, immunoprecipitation, flow cytometry, and protein purification. It has also been used in the study of protein-protein interactions, cell ultrastructure, and protein localization. FLAG peptide can also be used as a hydrophilic tag which significantly improves the detection and purification of recombinant fusion proteins.

Specificity and Preparation:
This antibody recognizes the FLAG peptide, usually found as a tag on fusion proteins. It is a monoclonal antibody produced in BALB/c mice and recognizes FLAG (DYKDDDDK) at either the amino or carboxyl terminus. It can be bound to various resins for affinity purification of FLAG fusion proteins. The antibody is routinely tested by ELISA.

Usage and Storage:
Reported to be effective for ELISA (1:20,000).
Store lyophilized material at 4°C in dry environment. Reconstitute with H_2O to 1 mg/ml. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Once reconstituted, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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