Mouse anti M13 bacteriophage (g3p), conjugated with Biotin

exalpha.com/products/mouse-anti-m13-bacteriophage-g3p-conjugated-with-biotin/Z110M

Catalog number: **Z110M**

Clone	E1
Isotype	IgG3
Product Type	Monoclonal Antibody
Units	100 µg
Host	Mouse
Application	ELISA Flow Cytometry Immunohistochemistry Western Blotting

Background
The display of repertoires of antibody fragments on the surface of filamentous phage offers a new way to produce immunoreagents with defined specificities.Phage derived antibody fragments offer a number of advantages over mouse monoclonal antibodies, such as better clearance from the blood, the possibility to select from human combinatorial libraries and the relative ease by which such fragments can be manipulated. The phage display technique thus facilitates the selection of antibody fragments of therapeutic value or research interest.Antibodies to M13 filamentous phage coat proteins are instrumental in the selection and detection of phages expressing specific antibody fragments or peptide sequences at their surface.

Source
Hybridoma produced by the fusion of splenocytes from mice immunized with isolated M13 phage coat proteins and mouse myeloma cells.

Immunogen: M13 phage coat proteins.

Product
Antibody specific for the M13 bacteriophage protein coat, amongst others the g3p protein.

Product Form: Biotin conjugated

Formulation: Provided as solution in phosphate buffered saline with 0.08% sodium azide

Purification Method: Protein A/G Chromatography

Concentration: See vial for concentration

Applications
Antibody can be used for immunohistochemistry, Western blot (1-5 µg/ml), Flow cytometry (1 µg/106 cells) and ELISA. Optimal concentration should be evaluated by serial dilutions.

Functional Analysis: Western Blotting

Storage
Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

Product Stability: See expiration date on vial

Shipping Conditions: Ship at ambient temperature, freeze upon arrival

Caution
This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations.This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References
1- Van Wezenbeek P.M., Schoenmakers J.G.; Nucleotide sequence of the genes III, VI and I of bacteriophage M13; Nucleic Acids Res. 6:2799-2818(1979). 2- Van Wezenbeek P.M., Hulsebos T.J., Schoenmakers J.G.; Nucleotide sequence of the filamentous bacteriophage M13 genome: comparison with phage fd; Gene 11:129-148(1980). 3- Cleary J.M., Ray D.S.; Deletion analysis of the cloned replication origin region from bacteriophage M13; J. Virol. 40:197-203(1981). 4- Hines J.C., Ray D.S.; Construction and characterization of new coliphage M13 cloning vectors; Gene 11:207-218(1980). 5- Yanisch-Perron C., Vieira J., Messing J.; Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors; Gene 33:103-119(1985). 6- Messing J.; New M13 Vectors for Cloning; Meth. Enzymol. 101:20 78(1983). 7- Sanger F., Nicklen S., Coulson A.R.; DNA sequencing with chain-terminating inhibitors; Proc. Natl. Acad. Sci. U.S.A. 74:5463-5468(1977). 8- Zoller M.J., Smith M.; Oligonucleotide-directed mutagenesis of DNA fragments cloned into M13 vectors; Meth. Enzymol. 100:468-500(1983). 9- Hu N.T., Messing J.; The making of strand-specific M13 probes; Gene 17:271-277(1982). 10- Heidecker G., Messing J., Gronenborn B.; A versatile primer for DNA sequencing in the M13mp2 cloning system; Gene 10:69-73(1980). 11- Ebright R., Dong Q., Messing J.; Corrected nucleotide sequence of M13mp18 gene III; Gene 114:81-83(1992). 12- Hong G.F.; A method for sequencing

single-stranded cloned DNA in both directions; Biosci. Rep. 1:243-252(1981). 13-Messing J.; Multipurpose cloning system based on the single-stranded DNA bacteriophage M13; Recombinant DNA Technical Bulletin NIH 2:43-48(1979).

Protein Reference(s)

Database Name: UniProt

Accession Number: P69168 (M13 phage)

Safety Datasheet(s) for this product:
EA_Sodium Azide

Data respresents absorbancy readings for A10B phage on rabbit IgG (A10B/IgG), A10B phage on BSA (A10B/BSA), streptavidin on rabbit IgG (SA/IgG) and streptavidin on BSA (SA/BSA) for each dilution of biotinylated anti-M13 monoclonal antibody.