Anti-Acetylaminofluorene [K16-16] Standard Size Ab00759-1.1

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse scFv (IgG1) format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Kappa
Clone Number: K16-16
Alternative Name(s) of Target: 2-AAF; AAF
UniProt Accession Number of Target Protein:
Published Application(s): colony hybridization, dot blot hydridization, PCR, plaque hybridization, Southern blot
Published Species Reactivity: n/a
Immunogen: K16-16 mAb was generated by immnizing BALB/c mice with acetyl aminofluorene-substituted guanosine (Le Guernet al, 1984). RNA derived from this hybridoma clone was then used to construct a phage display library and was selected for by its affinity for AAF-labelled sonicated salmon sperm DNA in an ELISA screen.
Specificity: K16-16 binds to AAF-labelled DNA. AAF is used to label DNA and RNA by binding covalently at the C8 position of guanosines; AAF can then be detected using anti-AAF antibodies.
Application Notes: K16-16 was used to construct a recombinant conjugate by fusing PhoAv bacterial phosphatase. The conjugate was used for one-step immunodetection of DNAs and RNAs in dot-blot, colony and plaque hybridization and in Southern/northern blot hybridization. It has also been used to detect PCR products.
Antibody First Published in: Muller et al. Recombinant single-chain Fv antibody fragment-alkaline phosphatase conjugate for one-step immunodetection in molecular hybridization. J Immunol Methods. 1999 Jul 30;227(1-2):177-85. PMID:10485265
Note on publication: Describes the construction of a phage display library and the conjugation of the anti-AAF scFv to PhoAv by recloning the scFv gene into the fusion vector pLIP6v and by producing the resulting scFv–PhoAv hybrid protein in E. coli. This was then shown to be used as a one-step method for immunodetection.

Product Form

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Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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