

Anti-Acetylaminofluorene [K16-16] Standard Size Ab00759-23.0

This chimeric rabbit 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: Rabbit IgG, 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 hybridization, PCR, plaque hybridization, Southern blot

Published Species Reactivity: n/a

Immunogen: K16-16 mAb was generated by immunizing 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

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.