ADVANCED TARGETING SYSTEMS

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FITC-labeled Antibody to Acetylated Lysine
RABBIT POLYCLONAL

Catalog Number: AB-269
Quantity: 100 micrograms
Format: PBS, pH 7 with 50% glycerol
Host: Rabbit
Immunogen: acetylated KLH conjugates

Background:
Acetylation of lysine is an important reversible modification. The activities of some proteins are controlled by acetylation of lysine. Histone acetyltransferases (HATs) acetylate the conserved amino-terminal domains of the four core histones (H2A, H2B, H3 and H4) that contain lysine residues. Histone deacetylases (HDACs) remove the acetyl group from the same residue. Acetylation/deacetylation of histones results in cell signaling processes that include gene activity, cell growth, differentiation and apoptosis. In cancer and polyglutamine diseases, the regulation of protein acetylation/deacetylation is impaired. Numerous anti-cancer drugs target HDACs.

Specificity and Preparation:
This antibody is an affinity purified rabbit polyclonal that recognizes the acetylated form of lysine. KLH-acetylated lysine is used as the antigen, and the antibody is affinity purified using immobilized acetylated lysine. The affinity purified antibody is conjugated to fluorescein isothiocyanate (FITC). Concentration 250 μg/ml.

Usage and Storage:
Applications include direct immunofluorescence experiments.

Store the antibody at -20°C. Stable for up to three years. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

For *in vitro* research use only. Not for use in humans or animals.