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HRP-labeled Antibody to Acetylated Lysine
Rabbit Polyclonal

Catalog Number: AB-296
Quantity: 100 micrograms
Format: PBS 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. Acetylated histone, acetylated BSA, and acetylated MBP have been tested with no reaction to the non-acetylated proteins. 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 horseradish peroxidase (HRP) via reductive amination with 2/1 molar ratio of HRP/antibody. The concentration is 250 $\mu\text{g/ml}$.

Usage and Storage:

Reported to be effective for ELISA (1:1000-5000), immunoblotting (western blot, 1: 250-1000), and immunoprecipitation (10 μg /1 mg proteins).

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

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