

product **AS10 707-25**
Acetylated lysine (25 µl)

product information

background	Post-translational modifications of proteins play critical roles in the regulation and function of many known biological processes. Proteins can be post-translationally modified in many different ways, and a common posttranscriptional modification of Lysine involves acetylation (1). The conserved amino-terminal domains of the four core histones (H2A, H2B, H3 and H4) contain lysines that are acetylated by histone acetyltransferases (HATs) and deacetylated by histone deacetylases (HDACs) (2). Protein posttranslational reversible lysine N -acetylation and deacetylation have been recognized as an emerging intracellular signaling mechanism that plays critical roles in regulating gene transcription, cell-cycle progression, apoptosis, DNA repair, and cytoskeletal organization (3).
immunogen	acetylated <u>KLH</u>
antibody format	mouse monoclonal IgG1 (clone 7F8) liquid
quantity	25 µl
storage	store at -20°C; avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB), ELISA (ELISA), immunohistochemistry (IHC), binds Protein G
additional information	protein G purified IgG2B in PBS, pH 7.4 with 0.09 % sodium azide and 50 % glycerol at concentration 1 mg/ml antibody detects proteins containing acetylated lysine residues in ELISA and WBs. Does not detect non-acetylated lysine residues.

application information

recommended dilution	needs to be determined for each application
expected apparent MW	n.a.
confirmed reactivity	bovine, avian
predicted reactivity	higher plants
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	1 µg of this antibody is sufficient to detect acetylated chicken erythrocyte histones (sodium butyrate-treated) using 20 µg total protein and ECL detection system
selected references	

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Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

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[Vigushin](#) & Coombes (2004). Targeted histone deacetylase inhibition for cancer therapy. *Curr. Cancer Drug Targets* 4: 205-218.