

KAT2B

Mouse Anti-Human Acetylated-Lysine Clone 15G10 mAb

Catalog No.	CS114418	Quantity:	25 µg
	CS114419		100 µg

Alternate Names: P, CAF, PCAF, P/CAF

Description: Proteins are reversibly and dynamically acetylated on the ε-amino group of lysine by acetyltransferases and deacetylated by deacetylases. This post-translational modification can regulate protein function (interactions with other proteins and DNA binding). Histones and transcription factors (PCAF, p53, p300, etc) appear to be the major targets of acetyltransferases. Acetylation is usually associated with chromatin remodeling and transcriptional activation, although in some cases (telomeres) it is associated with gene silencing. The 15G10 antibody recognizes acetylated lysine residues on proteins.

Concentration: 0.5 mg/ml

Gene ID: 8850

Structure: Proteins are acetylated by the reversible transfer of acetyl-CoA to the ε-amino group of lysine

Specificity: Post-translational modification of proteins by acetyltransferases and deacetylated by deacetylases to regulate protein-protein and protein-DNA interactions

Host: Mouse

Immunogen: Acetylated protein mixture

Isotype: IgG2b, κ

Clone: 15G10

Structure: Proteins are acetylated by the reversible transfer of acetyl-CoA to the ε-amino group of lysine.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: The antibody was purified by affinity chromatography.



Function: Post-translational modification of proteins by acetyltransferases and deacetylated by deacetylases to regulate protein-protein and protein-DNA interactions.

Reactivity: Acetylated lysine residues

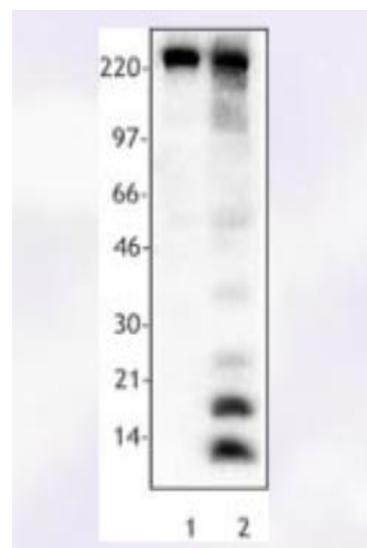
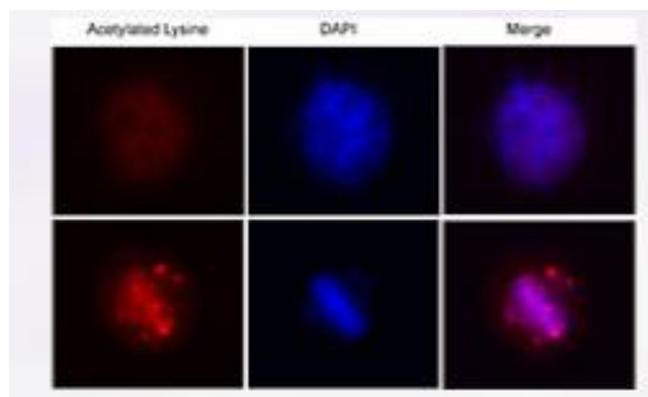
Applications: WB-Quality tested
IF-Reported in the literature

Application Notes: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a dilution range of 1-4 µg/ml. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store at 4°C.

Untreated HeLa cells (Upper Panel), or overnight nocodazole treated HeLa cells (Lower Panel) stained with purified mouse monoclonal antibody against Acetylated Lysine (clone 15G10), followed by Rhodamine Red-X conjugated Donkey anti-mouse IgG and DAPI.

Untreated HeLa cells (lane 1) and sodium butyrate-treated HeLa cells (24 hr treatment, lane 2) were lysed and cell extracts resolved by electrophoresis, transferred to nitrocellulose and probed with anti-acetylated lysine antibody (clone 15G10). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system. Sodium butyrate-treated cells show a variety of acetylated proteins with molecular weights consistent with histones, p53, CBP/p300, and PCAF (among others).



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