



Pan Methylated Lysine Monoclonal Antibody (Mix)

Cat #: ABM0060

Size: 100µl

Product Information

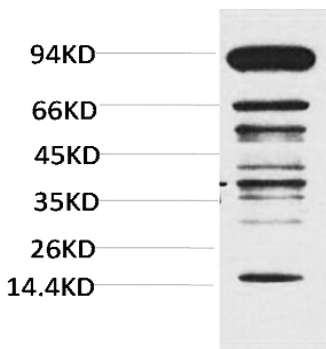
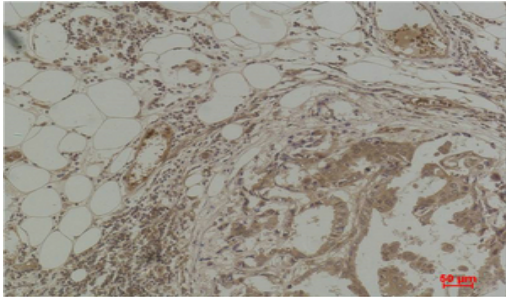
	Product Name: Pan Methylated Lysine Monoclonal Antibody (Mix)		
	Applications: WB, IHC-P		Isotype: Mouse IgG1
	Reactivity: All		
REF	Catalog Number: ABM0060	LOT	Lot Number: Refer to product label
	Formulation: Liquid		Concentration: 1 mg/ml
	Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.		Note: Contain sodium azide.

Background: Methylation of lysine residues is a common regulatory posttranslational modification (PTM) that results in the mono-, di-, or tri-methylation of lysine at ϵ -amine groups by protein lysine methyltransferases (PKMTs). Two PKMT groups are recognized based on structure and catalytic mechanism: class I methyltransferases or seven β strand enzymes, and SET domain-containing class V methyltransferases. Both use the methyl donor S-adenosyl-L-methionine to methylate histone and non-histone proteins. Class I methyltransferases methylate amino acids, DNA, and RNA. Six methyl-lysine-interacting protein families are distinguished based on binding domains: mBT, PHD finger, Tudor, PWWP, WD40 repeat, and chromodomains. Many of these display differential binding preferences based on lysine methylation state. KDM1 subfamily lysine demethylases catalyze demethylation of mono- and di-methyl lysines, while 2-oxoglutarate-dependent JmjC (KDM2-7) subfamily enzymes also modify tri-methyl lysine residues.

Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000-1:2000), IHC-P (1:200-1:500).

Storage Buffer: PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

Storage Instructions: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

	<p>Fig.1. Western blot analysis of HeLa using Pan Methylated Lysine Monoclonal Antibody.</p>
	<p>Fig.2. Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma using Pan Methylated Lysine Monoclonal Antibody.</p>

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