Recombinant Histone H3 (Mono Methyl Lys79) Monoclonal Antibody

catalog number: **AN302113L**

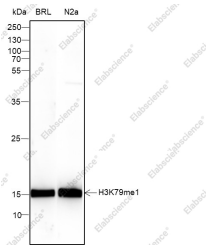
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Monomethylated human histone H3 (Lys79) peptide
Host	Rabbit
Isotype	Rabbit IgG
Clone	C121734
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:2000
IHC	1:50-1:100

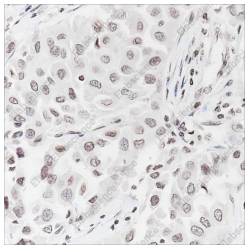
Data



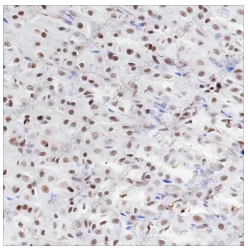
Western Blot with Histone H3 (Mono Methyl Lys79) Monoclonal Antibody at dilution of 1:2000. Lane 1: BRL, Lane 2: N2a

Observed-MW:15 kDa

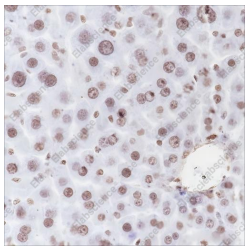
Calculated-MW:15 kDa



Immunohistochemistry of paraffin-embedded Human breast cancer using Histone H3 (Mono Methyl Lys79) Monoclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Mouse stomach using Histone H3 (Mono Methyl Lys79) Monoclonal Antibody at dilution of 1:100.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed Rat liver cells using anti-Histone H3 (Mono Methyl Lys79) Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

The ε-amino lysine acetylation of proteins is an important reversible modification controlling protein activity. The amino-terminal tails of core histones undergo lysine methylation in multiple sites, termed as “histone code” or “ epigenetic code”. Lysine methylation in core histones is a major determinant for the formation of active and inactive regions of the genome and therefore plays vital roles in multiple cellular events. In most species, lysine methylation occurs primarily on histones H3 (Lys4, 9, 27, 36, 79) and H4 (Lys20) and has been implicated in both transcriptional activation and silencing. Methylation in histones modulated by specific histone methyltransferases (HMTs)and histone demethylases (HDMs)is impaired in the pathologies of cancer and other diseases and therefore, enzymes regulating histone lysine methylation have become promising targets for anti-cancer drugs.

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