

Anti-Histone H3 pan, Rabbit Monoclonal Antibody

CATALOG NO: A1141-25

ALTERNATIVE NAMES: H3F3A, H3.3A, H3F3, H3F3B, H3.3B

AMOUNT: 25 µg

CONCENTRATION: 1 mg/ml

CLONE: RM188

IMMUNOGEN: A peptide corresponding to the C-terminus of human Histone H3

HOST/ISOTYPE: Rabbit IgG

SPECIES REACTIVITY: Human

PURIFICATION: Protein A affinity purified from an animal origin-free culture supernatant

FORM: Liquid

FORMULATION: 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide

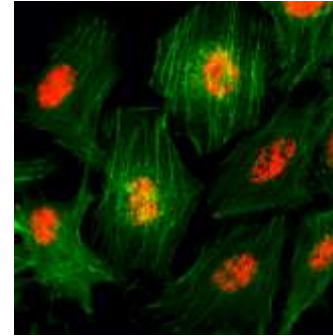
SPECIFICITY: This antibody reacts to all Histone H3 proteins, independent of post-translational modifications. No cross reactivity with other histone proteins

STORAGE CONDITIONS: For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles

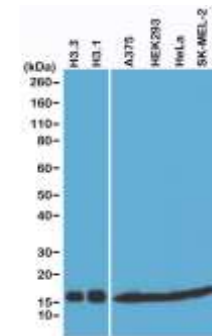
DESCRIPTION: Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases.

APPLICATION: Western Blot: 0.01 µg/ml – 0.25 µg/ml; ICC: 1 µg/ml - 5 µg/ml; ELISA: 0.2 µg/ml - 1 µg/ml; Multiplex: 0.1 µg/ml – 0.5 µg/ml

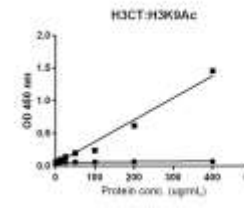
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Immunocytochemistry of HeLa cells, using Histone H3 Rabbit mAb (red). Actin filaments have been labeled with fluorescein phalloidin (green)



Western Blot of recombinant Histone H3.3 and Histone H3.1 proteins, A375, HEK293, HeLa and SK-MEL-2 whole cell lysates, using Histone H3 pan mAb at 0.025 µg/ml



Sandwich ELISA against acetylated histone H3 at Lys 9 using HeLa whole cell lysate, treated or untreated with Sodium Butyrate.

Fig 1: Using anti-Histone H3 pan (1 µg/ml) as the capture antibody and biotinylated anti-H3K9ac (1 µg/ml) as the detection antibody.

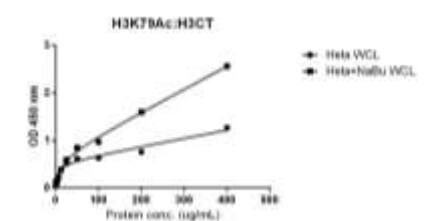


Fig 2: Using anti-H3K79ac (5 µg/ml) as the capture antibody and biotinylated anti-H3CT (1 µg/ml) as the detection antibody.

RELATED PRODUCTS:

- H3 Pan Antibody (Cat. No. 6806-50)
- Histone H3 (1-136 aa), Human recombinant (Cat. No. 7670-100)

FOR RESEARCH USE ONLY! Not to be used on humans.

