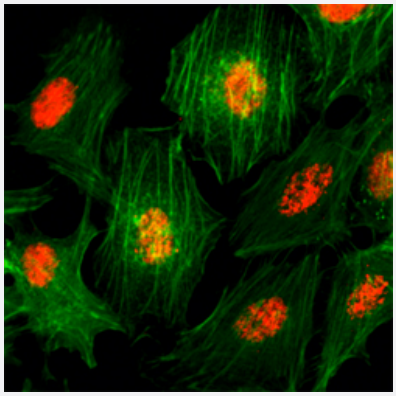
RecomAb™ Sm Size

Pan Histone H3 monoclonal antibody, clone RM188

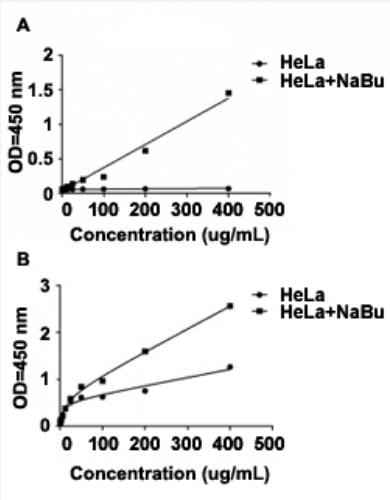
Catalog # RAB09470 Size 25 ug

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells with Pan Histone H3 recombinant monoclonal antibody, clone RM188 (Cat # RAB09470) (Red). Actin filaments have been labeled with fluorescein phalloidin (Green).



Sandwich ELISA

Sandwich ELISA analysis of HeLa whole cell lysate treated or untreated with Sodium Butyrate (NaBu) using Pan Histone H3 recombinant monoclonal antibody, clone RM188 (Cat # RAB09470). A: Using Pan Histone H3 recombinant monoclonal antibody, clone RM188 as the capture antibody at 1 ug/mL working concentration and biotinylated format of Histone H3 (acetyl K9) recombinant monoclonal antibody, clone RM161 (Cat # RAB09482) as the detection antibody at 1 ug/mL working concentration. B: Using Histone H3 (acetyl K79) recombinant monoclonal antibody, clone RM156 as the capture antibody at 5 ug/mL working concentration and biotinylated format of Pan Histone H3 recombinant monoclonal antibody, clone RM188 (Cat # RAB09480) as the detection antibody at 1 ug/mL working concentration.

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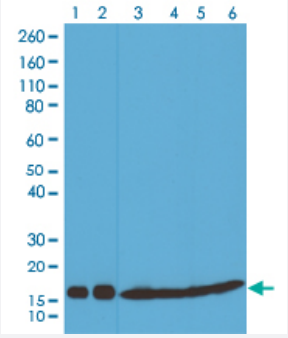

Western Blot

Western blot analysis of Lane 1: recombinant Histone H3.3, Lane 2: recombinant Histone H3.1, Lane 3: A375, Lane 4: HEK293, Lane 5: HeLa and Lane 6: SK-MEL-2 whole cell lysate with Pan Histone H3 recombinant monoclonal antibody, clone RM188 (Cat # RAB09470) at 0.025 ug/mL working concentration, showed a band of recombinant Histone H3.3, recombinant Histone H3.1 and total Histone H3 in A375, HEK293, HeLa and SK-MEL-2 cells.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human Pan histone H3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to C-terminus region of human Pan Histone H3.
Sequence	N/A
Specificity	This antibody reacts to all Histone H3 proteins, independent of post-translational modifications. No cr oss reactivity with other histone proteins.
Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Sandwich ELISA (0.2 ug/mL-1 ug/mL) Immunocytochemistry (1 ug/mL-5 ug/mL) Western Blot (0.01 ug/mL-0.25 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — HIST1H3A

Entrez GeneID	8350
Protein Accession#	P84243
Gene Name	HIST1H3A
Gene Alias	H3/A, H3FA
Gene Description	histone cluster 1, H3a
Omim ID	602810
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped ar ound a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H 1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA t ails; instead, they contain a palindromic termination element. This gene is found in the large histon e gene cluster on chromosome 6p22-p21.3. [provided by RefSeq
Other Designations	H3 histone family, member A|histone 1, H3a

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Pathway

- Systemic lupus erythematosus

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