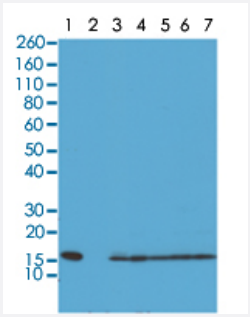
RecomAb™

Histone H2A monoclonal antibody, clone RM225

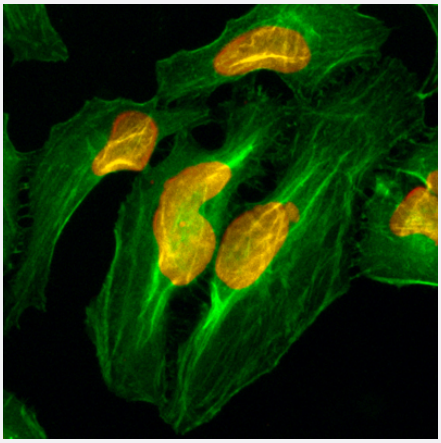
Catalog # MAB15118 Size 100 ug

Applications



Western Blot

Western blot analysis of Lane 1: recombinant Histone H2A, Lane 2: recombinant Histone H2B, Lane 3: HeLa, Lane 4: A375, Lane 5: SK-MEL-2, Lane 6: A431, Lane 7: K562 whole cell lysates with Histone H2A monoclonal antibody, clone RM225 (Cat # MAB15118) at 0.5 ug/mL working concentration.



Immunocytochemistry

Immunocytochemistry staining of HeLa cells with Histone H2A monoclonal antibody, clone RM225 (Cat # MAB15118) (Red). Actin filaments was labeled with fluorescein phalloidin (Green).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H2A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to C-terminus of human Histone H2A.
Sequence	N/A

Reactivity	Human
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG
Recommend Usage	ELISA (0.2-1 ug/mL) Immunocytochemistry (1-2 ug/mL) Multiplex (0.2-1 ug/mL) Western Blot (0.5-2 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

- Western Blot

  Western blot analysis of Lane 1: recombinant Histone H2A, Lane 2: recombinant Histone H2B, Lane 3: HeLa, Lane 4: A375, Lane 5: SK-MEL-2, Lane 6: A431, Lane 7: K562 whole cell lysates with Histone H2A monoclonal antibody, clone RM225 (Cat # MAB15118) at 0.5 ug/mL working concentration.

- Immunocytochemistry

  Immunocytochemistry staining of HeLa cells with Histone H2A monoclonal antibody, clone RM225 (Cat # MAB15118) (Red). Actin filaments was labeled with fluorescein phalloidin (Green).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HIST1H2AE

Entrez GeneID	3012
Protein Accession#	P04908; Q93077; Q7L7L0; Q6FI13; P20671; P0C0S8
Gene Name	HIST1H2AE
Gene Alias	H2A.1, H2A.2, H2A/a, H2AFA

Gene Description	histone cluster 1, H2ae
Omim ID	602786
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped aro und a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H 4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H2A family. Transcripts from this gene lack polyA tails; inst ead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq
Other Designations	H2A histone family, member A|histone 1, H2ae|histone H2AE

Gene Info — HIST1H2AD

Entrez GeneID	3013
Protein Accession#	P04908; Q93077; Q7L7L0; Q6FI13; P20671; P0C0S8
Gene Name	HIST1H2AD
Gene Alias	H2A.3, H2A/g, H2AFG, HIST1H3D
Gene Description	histone cluster 1, H2ad
Omim ID	602792
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 H2A family. Transcripts from this gene lack poly A tails; instead, they contain a palindromic termination element. This gene is found in the large his tone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq
Other Designations	H2A histone family, member G|OTTHUMP00000016153|histone 1, H2ad|histone H2AD

Gene Info — HIST1H2AI

Entrez GeneID	8329

Protein Accession#	P04908; Q93077; Q7L7L0; Q6FI13; P20671; P0C0S8
Gene Name	HIST1H2AI
Gene Alias	FLJ92027, H2A/c, H2AFC
Gene Description	histone cluster 1, H2ai
Omim ID	602787
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, an d H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and f unctions in the compaction of chromatin into higher order structures. This gene is intronless and e ncodes a member of the histone H2A family. Transcripts from this gene lack polyA tails but instea d contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq
Other Designations	H2A histone family, member C|OTTHUMP00000016183|histone 1, H2ai

Gene Info — HIST1H2AC

Entrez GeneID	8334
Protein Accession#	P04908; Q93077; Q7L7L0; Q6FI13; P20671; P0C0S8
Gene Name	HIST1H2AC
Gene Alias	H2A/l, H2AFL, MGC99519, dJ221C16.4
Gene Description	histone cluster 1, H2ac
Omim ID	602794
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, an d H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and f unctions in the compaction of chromatin into higher order structures. This gene is intronless and e ncodes a member of the histone H2A family. Transcripts from this gene lack polyA tails but instea d contain a palindromic termination element. This gene is found in the large histone gene cluster o n chromosome 6. [provided by RefSeq
Other Designations	H2A histone family, member L|OTTHUMP00000016145|histone 1, H2ac|histone H2AC

Gene Info — HIST2H2AA4

Entrez GeneID	723790
Protein Accession#	P04908; Q93077; Q7L7L0; Q6FI13; P20671; P0C0S8
Gene Name	HIST2H2AA4
Gene Alias	H2A/R
Gene Description	histone cluster 2, H2aa4
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, an d H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and f unctions in the compaction of chromatin into higher order structures. This gene is intronless and e ncodes a member of the histone H2A family. Transcripts from this gene lack polyA tails but instea d contain a palindromic termination element. This gene is found in a histone cluster on chromoso me 1. This gene is one of four histone genes in the cluster that are duplicated; this record represe nts the telomeric copy. [provided by RefSeq
Other Designations	OTTHUMP00000013922|histone 2, H2aa4|histone H2A/r

Pathway

- Systemic lupus erythematosus
- Systemic lupus erythematosus
- Systemic lupus erythematosus
- Systemic lupus erythematosus
- Systemic lupus erythematosus