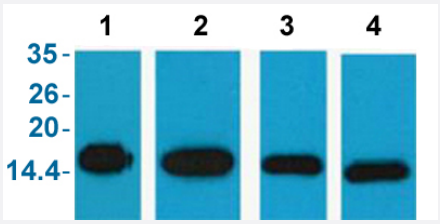
Histone H3 monoclonal antibody, clone 1G1

Catalog # MAB15247 Size 100 uL

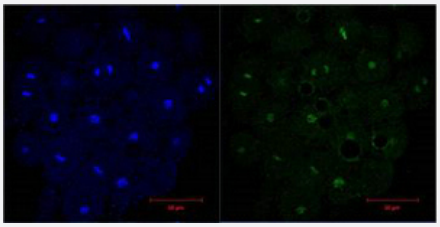
Applications

Western Blot



Western Blot analysis of Lane 1: HeLa cell, Lane 2: Raw 264.7 cell, Lane 3: mouse brain tissue and Lane 4: rat brain tissue.

Immunofluorescence



Immunofluorescence staining of HeLa cell line.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human histone H3.
Immunogen	Recombinant protein corresponding to full length human histone H3.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG1

Recommend Usage	Immunofluorescence (1:100-1:500) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:300) Immunoprecipitation (1:200) Western Blot (1:2000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.5% BSA, 0.02% 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: HeLa cell, Lane 2: Raw 264.7 cell, Lane 3: mouse brain tissue and Lane 4: rat brain tissue.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunofluorescence

  Immunofluorescence staining of HeLa cell line.

- Immunoprecipitation

Gene Info — HIST1H3A

Entrez GeneID	8350
Protein Accession#	P68431
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

Gene Info — HIST1H3D

Entrez GeneID	8351
Protein Accession#	P68431
Gene Name	HIST1H3D
Gene Alias	H3/b, H3FB
Gene Description	histone cluster 1, H3d
Omim ID	602811
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 H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq
Other Designations	H3 histone family, member B|OTTHUMP00000016149|histone 1, H3d

Gene Info — HIST1H3C

Entrez GeneID	8352
Protein Accession#	P68431
Gene Name	HIST1H3C
Gene Alias	H3.1, H3/c, H3FC

Gene Description	histone cluster 1, H3c
Omim ID	602812
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 H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq
Other Designations	H3 histone family, member C|histone 1, H3c

Gene Info — HIST1H3E

Entrez GeneID	8353
Protein Accession#	P68431
Gene Name	HIST1H3E
Gene Alias	H3.1, H3/d, H3FD
Gene Description	histone cluster 1, H3e
Omim ID	602813
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 H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq
Other Designations	H3 histone family, member D|histone 1, H3e

Gene Info — HIST1H3I

Entrez GeneID	8354

Protein Accession#	P68431
Gene Name	HIST1H3I
Gene Alias	H3.f, H3/f, H3FF
Gene Description	histone cluster 1, H3i
Omim ID	602814
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 H3 family. Transcripts from this gene lack polyA tails but instead 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	H3 histone family, member F|OTTHUMP00000017803|histone 1, H3i

Gene Info — HIST1H3G

Entrez GeneID	8355
Protein Accession#	P68431
Gene Name	HIST1H3G
Gene Alias	H3/h, H3FH
Gene Description	histone cluster 1, H3g
Omim ID	602815
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 H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq
Other Designations	H3 histone family, member H|OTTHUMP00000016152|histone 1, H3g

Gene Info — HIST1H3J

Entrez GeneID	8356
Protein Accession#	P68431
Gene Name	HIST1H3J
Gene Alias	H3/j, H3FJ
Gene Description	histone cluster 1, H3j
Omim ID	602817
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 H3 family. Transcripts from this gene lack polyA tails but instead 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	H3 histone family, member J|OTTHUMP00000017804|histone 1, H3j

Gene Info — HIST1H3H

Entrez GeneID	8357
Protein Accession#	P68431
Gene Name	HIST1H3H
Gene Alias	FLJ92264, H3/k, H3F1K, H3FK
Gene Description	histone cluster 1, H3h
Omim ID	602818
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 H3 family. Transcripts from this gene lack polyA tails but instead 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	H3 histone family, member K|histone 1, H3h

Gene Info — HIST1H3B

Entrez GeneID	8358
Protein Accession#	P68431
Gene Name	HIST1H3B
Gene Alias	H3/l, H3FL
Gene Description	histone cluster 1, H3b
Omim ID	602819
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 L|OTTHUMP00000016132|histone 1, H3b

Gene Info — HIST1H3F

Entrez GeneID	8968
Protein Accession#	P68431
Gene Name	HIST1H3F
Gene Alias	H3/i, H3FI

Gene Description	histone cluster 1, H3f
Omim ID	602816
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around 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, H1, 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 tails; instead, 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	H3 histone family, member I|OTTHUMP00000016151|histone 1, H3f

Pathway

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

- Abortion
- Genetic Predisposition to Disease
- Tobacco Use Disorder