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Rabbit Anti-Histone H1.X antibody

SL17424R

Product Name:	Histone H1.X
Chinese Name:	组蛋白H1家族X抗体
Alias:	H1 histone family member X; Histone H1fx; H1FX; H1X_HUMAN; H1X; Histone H1x; MGC15959; MGC8350.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Histone H1.X:21-120/213
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 encodes a member of the histone H1

family. [provided by RefSeq, Jul 2008]

Function:
Histones H1 are necessary for the condensation of nucleosome chains into higher-order structures.

Subcellular Location:
NuclearC. hromosome.

Tissue Specificity:
Expressed ubiquitously.

Post-translational modifications:
Citrullination at Arg-62 (H1R54ci) by PADI4 takes place within the DNA-binding site of H1 and results in its displacement from chromatin and global chromatin decondensation, thereby promoting pluripotency and stem cell maintenance (By similarity).

Similarity:
Belongs to the histone H1/H5 family.
Contains 1 H15 (linker histone H1/H5 globular) domain.

SWISS:
Q92522

Gene ID:
8971

Database links:

Entrez Gene: 8971 Human

Entrez Gene: 243529 Mouse

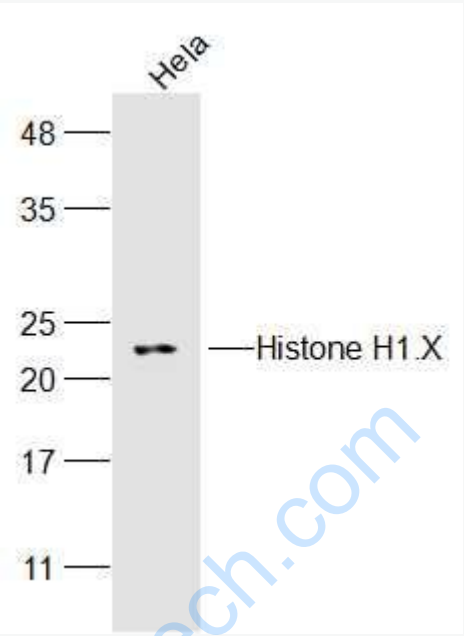
Omim: 602785 Human

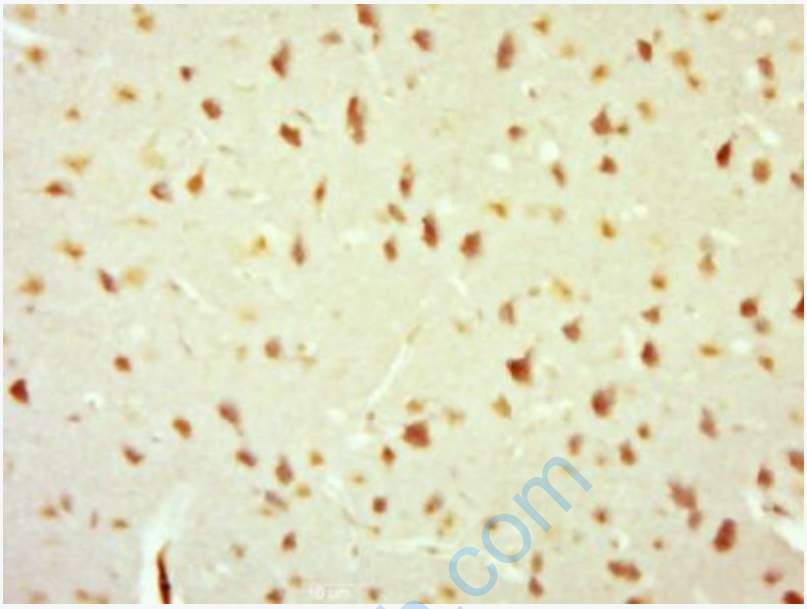
SwissProt: Q92522 Human

SwissProt: Q80ZM5 Mouse

Unigene: 33796 Mouse

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: Hela(Human) Cell Lysate at 30 ug Primary: Anti-Histone H1.X (SL17424R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 22 kD Observed band size: 22 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Histone H1.X) Polyclonal Antibody, Unconjugated (SL17424R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.