

Recombinant Histone H1.X

Catalog No: 82168, 82768

Expressed In: *E. coli*

Quantity: 50, 1000 µg

Source: Human

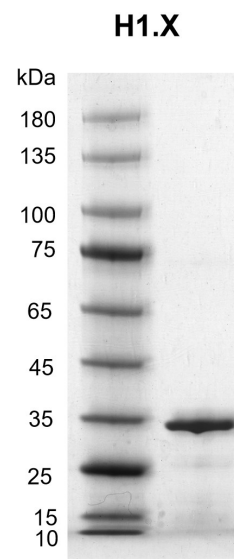
Buffer Contents: Recombinant Histone H1.X is supplied in 25 mM Tris 7.4, 150mM NaCl and 10% glycerol.

Background: Histone H1.X, also known by its gene symbol H1FX or alternative names such as H1-10, H1.10, and H1 histone family member X, is a replication-independent subtype of the linker histone H1 family that exhibits distinct biochemical properties and plays specialized roles in chromatin dynamics. Unlike the more abundant somatic H1 variants, H1.X demonstrates significantly lower DNA, nucleosome, and histone chaperone binding activities, which results in its remarkably rapid exchange on and off chromatin compared to other H1 subtypes. This highly dynamic linker histone accumulates in the nucleolus during interphase and localizes to the chromosome periphery during mitosis, where it has been shown to be essential for proper chromosome alignment and segregation. Furthermore, H1.X displays unique chromosomal binding site preferences that differ from other variants like H1.0, with its N-terminal, globular, and C-terminal domains cooperatively determining its specific genomic localization patterns and contributing to its regulatory functions in higher-order chromatin structure.

Protein Details: Full length Histone H1.X (accession number NP_006017.1) was expressed in *E. coli* cells and contains an C-terminal His tag. The molecular weight of it is 23.55 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.



Recombinant H1.X protein gel
4-20% SDS-PAGE gel
MW: 23.55
Purity: >90%