

H2AFX Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP8919b

Specification

H2AFX Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

P16104

H2AFX Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 3014

Other Names

Histone H2AX, H2a/x, Histone H2AX, H2AFX, H2AX

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8919b was selected from the C-term region of human H2AFX. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

H2AFX Antibody (C-term) Blocking Peptide - Protein Information

Name H2AX (HGNC:4739)

Function

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post- translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.

Cellular Location

Nucleus. Chromosome



H2AFX Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

Blocking Peptides

H2AFX Antibody (C-term) Blocking Peptide - Images

H2AFX Antibody (C-term) Blocking Peptide - Background

H2AFX is basic nuclear protein that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and 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 functions in the compaction of chromatin into higher order structures. This gene encodes a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif.

H2AFX Antibody (C-term) Blocking Peptide - References

Yamagata, K.et.al., Biochem. Biophys. Res. Commun. 390 (4), 1355-1360 (2009)