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H2AFY2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20530c

Product Information

Application	WB, E
Primary Accession	Q9P0M6
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40058
Antigen Region	148-169

Additional Information

Gene ID	55506
Other Names	Core histone macro-H2A2, Histone macroH2A2, mH2A2, H2AFY2, MACROH2A2
Target/Specificity	This H2AFY2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 148-169 amino acids from the Central region of human H2AFY2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	H2AFY2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

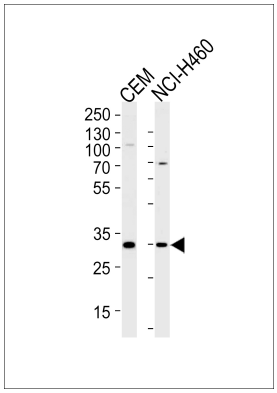
Name	MACROH2A2 (HGNC:14453)
Function	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby 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. May be involved in stable X chromosome inactivation.
Cellular Location	Nucleus. Chromosome. Note=Enriched in inactive X chromosome chromatin (PubMed:11331621, PubMed:11262398) and in senescence- associated heterochromatin (PubMed:15621527)

Background

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. 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. May be involved in stable X chromosome inactivation.

Images



H2AFY2 Antibody (Center) (Cat. #AP20530c) western blot analysis in CEM,NCI-H460 cell line lysates (35ug/lane).This demonstrates the H2AFY2 antibody detected the H2AFY2 protein (arrow).