



Anti-Histone H3.3 Antibody

Alternative Names: H3 histone family 3A, H3 histone family member 3A

Catalogue Number: AA17-10035-50ug

Size: 50 µg

Background Information

Histone H3.3 is a replication independent variant of Histone H3 which is generally expressed in quiescent or terminally differentiated cells. It constitutes the predominant form of histone H3 in such cells and replaces conventional H3 in a wide range of nucleosomes in active genes. It is incorporated into chromatin independently of DNA synthesis. Modifications in Histone H3.3 are associated with transcriptional activation and act as an epigenetic mark of transcriptionally active chromatin. Histone H3.3 has been found to play an important role in maintaining genome integrity during mammalian development. Histone H3.3 is a 15 kDa protein which is expressed throughout the cell cycle independently of DNA synthesis in all eukaryotic genomes. H3.3 differs from the canonical replication-coupled H3 histones (H3.1/H3.2 in mammals) by only four to five amino acids, respectively, but has distinct expression patterns and chromatin incorporation mechanisms. Canonical H3 variants are expressed only during S phase.

Product Information

Antibody Type:	Polyclonal	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Mouse, Pig, Drosophila Melanogaster, Bovine, Rabbit, Chicken
Immunogen:	Full length recombinant human Histone H3.3		
Format:	50 µg in 100 µl PBS containing 0.05% BSA and 0.05% sodium azide.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	WB WB: 2-4 µg/ml		

Additional Information

Subcellular location:	Nucleus	MW:	15kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	3020	Uniprot ID:	P84243