

For Research Use Only

Acetyl-Histone H3 (Lys56) Recombinant monoclonal antibody, PBS Only

Catalog Number: 87676-2-PBS



Basic Information

Catalog Number: 87676-2-PBS	GenBank Accession Number: BC066245	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 8350	CloneNo.: 252356B12
Source: Rabbit	UNIPROT ID: P68431	
Isotype: IgG	Full Name: histone cluster 1, H3a	

Applications

Tested Applications:
FC (Intra), Dot Blot, Indirect ELISA, ChIP-qPCR

Species Specificity:
human

Background Information

Histones are small, highly basic proteins that consist of a globular domain with unstructured N- and C-terminal tails protruding from the main structure. Histone H3 is one of the five main histones 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. In addition to their role in DNA compartmentalization, histones also play crucial roles in various biologic processes, including gene expression and regulation, DNA repair, chromatin condensation, cell cycle progression, chromosome segregation, and apoptosis. The ability of histones to regulate chromatin dynamics primarily originates from various posttranslational modifications carried out by histone-modifying enzymes.

Storage

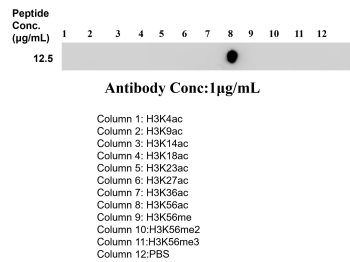
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

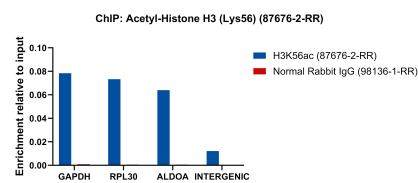
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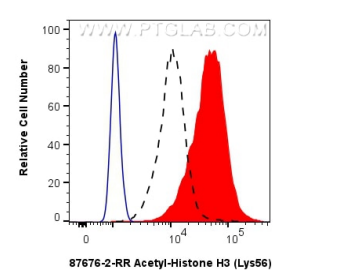
Selected Validation Data



Dot blot analysis was used to confirm the specificity of 87676-2-RR Acetyl-Histone H3 (Lys56) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/mL. The amount of peptide (µg/mL) spotted is indicated next to each row. This data was developed using the same antibody clone with 87676-2-PBS in a different storage buffer formulation.



Chromatin was prepared from HeLa cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Acetyl-Histone H3 (Lys56) (87676-2-RR) or 5 µg of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR. This data was developed using the same antibody clone with 87676-2-PBS in a different storage buffer formulation.



1x10⁶ Trichostatin A treated NIH/3T3 cells were intracellularly stained with 0.13 µg Acetyl-Histone H3 (Lys56) Recombinant monoclonal antibody (87676-2-RR, Clone:252356B12) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 µg Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026). This data was developed using the same