

## Anti-Phospho-Histone H3 (Ser28) Antibody (31430)

## Product Details

Ig Type:	Rabbit IgG Human;
Reactivity:	Predicted to React with:Species predicted to react based on 100% sequence homology: Mouse, Rat
Conjugation:	Unconjugated
Clone:	31430
Purification:	Protein A

## Applications

Verified Activity:	1. Western blot analysis of extracts from serum-starved HeLa, untreated (line A) or treated with calyculin A(200nM, 30min; +)(line B), using Phospho-Histone H3 (Ser28) rabbit monoclonal Antibody at 1:20000 dilution (upper) or Anti-Actin Antibody, Chimeric Rabbit Monoclonal at 1:50000 dilution (lower). 2. Western blot analysis of extracts from serum-starved HeLa, untreated (line A); treated with calyculin A(200nM, 30min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Histone H3 (Ser28) rabbit monoclonal Antibody at 1:20000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 1:50000-1:500000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: residues around (Ser28) of Human Histone H3
Antigen Species:	Human
Synonyms:	Histone H3 (pS28);Histone H3 (pSer28);Phospho-Histone H3 (S28);p-Histone H3 (Ser28);p-Histone H3 (S28)

## Research Background

Histone H3 is a histone protein. Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. They play a central role in transcription regulation, DNA repair, DNA replication, and chromosomal stability. 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. Histone H3 is characterized by a main globular domain and a long N-terminal tail. It is involved with the structure of the nucleosomes of the 'beads on a string' structure. There are five main histone proteins involved in the structure of chromatin in eukaryotic cells. Histone H3 is the most extensively modified of the five histones. In the emerging field of epigenetics, it is thought that Histone H3 plays a key role, cause its sequence variants and variable modification states function in the dynamic and long term regulation of genes.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481