

Anti-Histone H3 Antibody (2C936)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2C936
Purification:	Protein A

Applications

Verified Activity:	Immunofluorescence staining of histone H3 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-human histone H3 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to nucleus.
Application:	ICC/IF
Recommended	ICC-IF: 1:20-1:100

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: C-terminus of the Human Histone H3
Antigen Species:	Human

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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