Data Sheet (Cat.No.TMAY-00020)

TargetMol

Anti-Histone H3 Antibody (3W197)

Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3W197
Purification:	Protein A

Applications

Verified Activity:

1. Immunochemical staining of human histone H3 in human mammary gland with mouse monoclonal antibody (formalin-fixed paraffin embedded sections). Positive staining was localized to nucleus.
2. Immunochemical staining of human histone H3 in human colon carcinoma with mouse monoclonal antibody (formalin-fixed paraffin embedded sections). Positive staining was localized to nucleus. The left panel: tissue incubated with primary antibody;The right panel: tissue incubated with the mixture of primary antibody and antigen (polypeptide).
3. Anti-Histone H3 mouse monoclonal antibody at 1:2000 dilution.
-Lane A: Hela Whole Cell Lysate.
-Lane B: Jurkat Whole Cell Lysate.
-Lane C: 293 Whole Cell lysate.
-Lysates/proteins at 30 µg per Lane.
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/7500 dilution.
-Developed using the Odyssey technique.
-Performed under reducing conditions.
-Predicted band size: 18 kDa.
-Observed band size: 18 kDa.
4. Anti-Histone H3 mouse monoclonal antibody at 1:10000, 1:20000, 1:50000 dilution
-Lysates/proteins at 30 µg per Lane.
-Secondary
-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.
-Developed using the ECL technique.
-Performed under reducing conditions.
-Predicted band size: 18 kDa.
-Observed band size:18 kDa.
5. Anti-Histone H3 mouse monoclonal antibody at 1:20000 dilution
-Lysates/proteins at 30 µg per Lane.
-Secondary
-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.
-Developed using the ECL technique.
-Performed under reducing conditions.
-Predicted band size: 18 kDa.
-Observed band size:18 kDa.
6. Anti-Histone H3 mouse monoclonal antibody at 1:20000 dilution
-Lysates/proteins at 30 µg per Lane.

-Secondary
-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.
-Developed using the ECL technique.
-Performed under reducing conditions.
-Predicted band size: 18 kDa.
-Observed band size:18 kDa.
7. Anti-Histone H3 mouse monoclonal antibody at 1:20000 dilution
-Lysates/proteins at 30 µg per Lane.
-Secondary
-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.
-Developed using the ECL technique.
-Performed under reducing conditions.
-Predicted band size: 18 kDa.
-Observed band size:18 kDa.
8. Anti-Histone H3 mouse monoclonal antibody at 1:1000 dilution.
-Lane A: Histone H3 konckout Hela Whole Cell Lysate.
-Lane B: Hela Whole Cell lysate.
-Lysates/proteins at 10 µg per lane.
-Secondary
-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.
-Developed using the ECL technique.
-Performed under reducing conditions.
-Predicted band size:18 kDa.
-Observed band size:18 kDa(Validation Experiment)

Application: IHC-P,WB

Recommended: WB: 1:1000-1:100000; IHC-P: 1/50-1/1000

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.

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