10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# HIST1H3D Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HIST1H3D.
Catalog # AT2374a

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF |
| **Primary Accession** | P68431 |
| **Other Accession** | NM_003530 |
| **Reactivity** | Human, Mouse |
| **Host** | Mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG3 Kappa |
| **Clone Names** | 1D8 |
| **Calculated MW** | 15404 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968 |
| **Other Names** | Histone H31, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, H3FA |
| **Target/Specificity** | HIST1H3D (NP_003521, 1 a.a. ~ 60 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | HIST1H3D Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

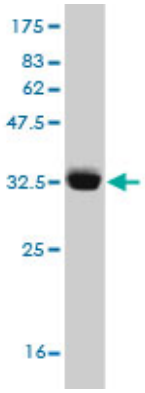
## Background

Histones are basic nuclear proteins 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. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.

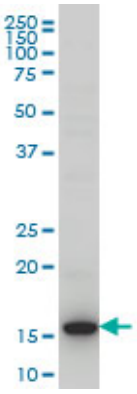
## References

1.Protective Effect of Caffeic Acid on Paclitaxel Induced Anti-Proliferation and Apoptosis of Lung Cancer Cells Involves NF-?eB Pathway.Lin CL, Chen RF, Chen YF, Chu YC, Wang HM, Chou HL, Chang WC, Fong Y, Chang WT, Wu CY, Chiu CC.Int. J. Mol. Sci. 2012, 13, 6236-6245

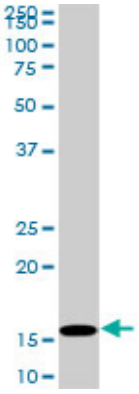
## Images



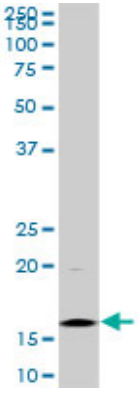

Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.34 KDa) .



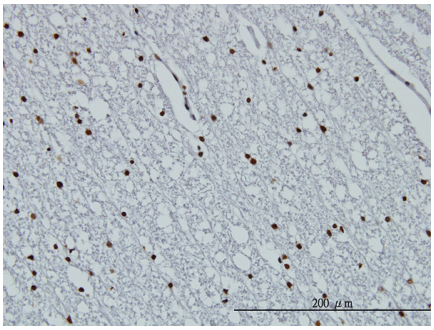

HIST1H3D monoclonal antibody (M01), clone 1D8
Western Blot analysis of HIST1H3D expression in Hela S3 NE ( (Cat # AT2374a )



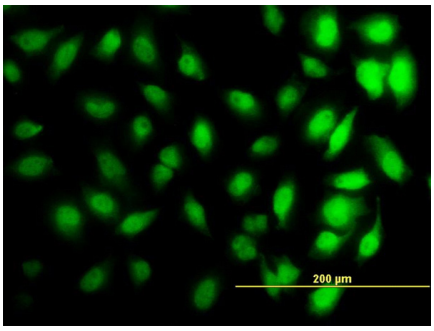

HIST1H3D monoclonal antibody (M01), clone 1D8.
Western Blot analysis of HIST1H3D expression in Raw 264.7 ( (Cat # AT2374a )




HIST1H3D monoclonal antibody (M01), clone 1D8.
Western Blot analysis of HIST1H3D expression in NIH/3T3 ( (Cat # AT2374a )




Immunoperoxidase of monoclonal antibody to HIST1H3D on formalin-fixed paraffin-embedded human lateral ventricle wall. [antibody concentration 3 ug/ml]




Immunofluorescence of monoclonal antibody to HIST1H3D on HeLa cell. [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.