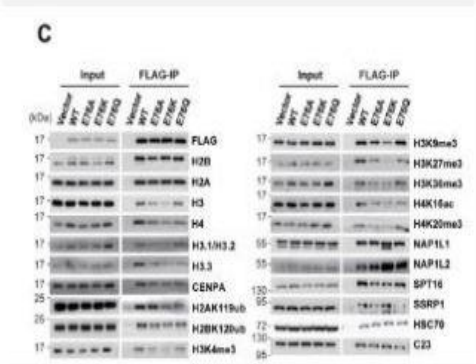
PRODUCT DATA SHEET

Histone H3 Monoclonal Antibody(1G1)

Catalog No.	IMB0030
Reactivity	Human;Mouse;Rat;Yeast
Applications	WB; IHC-p; IF/ICC; IP
Gene Name	HIST1H3A/HIST1H3B/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/HIST1H3G/HIST1H3H
Protein Name	Histone H3.1/Histone H3.2/Histone H3.3
Human Gene Id	8350/8351/8352/8353/8354/8355/8356/8357/8358/8968
Swiss-Prot	P68431/Q71DI3/P84243
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Dilution	WB: 1:2000-5000 IF:1:100-500 IP:1:200 IHC: 1:50-300
PurIF:ication	The antibody was affinity-purIF:ied from mouse ascites by affinity-chromatography using specIF
Concentration	-
Storage&Stability	-20°C/1 year
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chrom of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core h through the interaction of a linker histone, H1, with the DNA between the nucleosomes to forn replication-dependent histone that is a member of the histone H3 family. Transcripts from this ge This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.
Subcellular Location.	Nucleus. Chromosome.
BiowMW	15273

Products Images:



Kang, Tze Zhen Evangeline, et al. "The elevated transcription of ADAM19 by the oncohistone H2BE76K contributes to oncogenic properties in breast cancer." Journal of Biological Chemistry 296 (2021).

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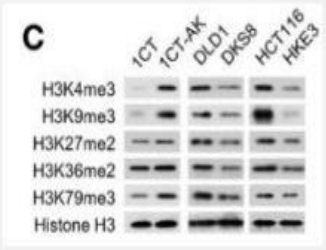
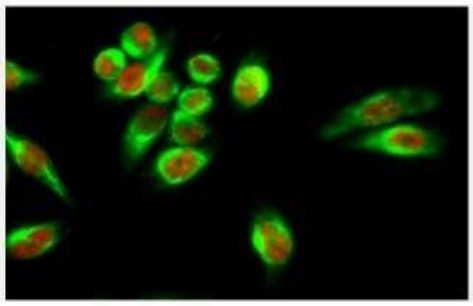
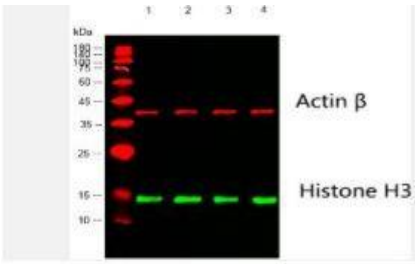


Wong, Chi Chun, et al. "In Colorectal Cancer Cells With Mutant KRAS, SLC25A22-Mediated Glutaminolysis Reduces DNA Demethylation to Increase WNT Signaling, Stemness, and Drug Resistance." Gastroenterology 159.6 (2020): 2163-2180.



Immunofluorescence analysis of Hela cell. 1,Amyloid-β Polyclonal Antibody(green) was diluted at 1:200(4° overnight). (red) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog:RS3608 was diluted at 1:1000(room temperature, 50min).



Western blot analysis of lysates from 1) Hela, 2) Raw, 3) Mouse Brain Tissue, 4) Rat Brain Tissue cells, (Green) primary antibody was diluted at 1:1000, 4°over night, Dylight 800 secondary antibody(Immunoway:RS23910)was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclonal Antibody (Immunoway:YT0099) antibody was diluted at 1:5000 as loading control, 4° over night,Dylight 680 secondary antibody(Immunoway:RS23720)was diluted at 1:10000, 37° 1hour.

Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,Histone H3 Monoclonal Antibody(1G1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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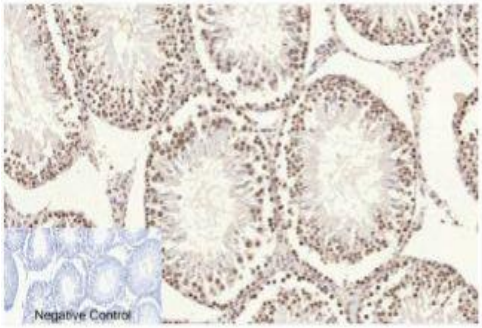
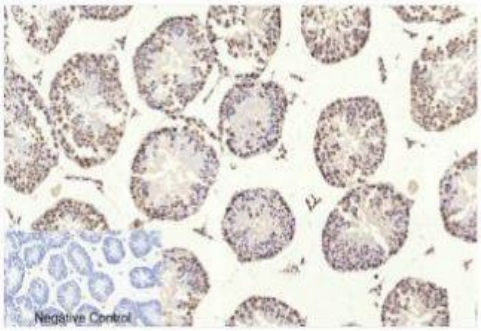
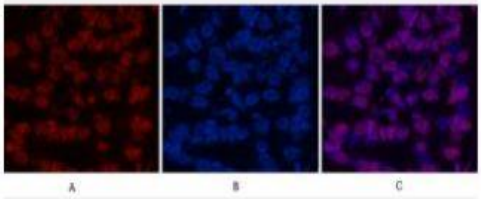


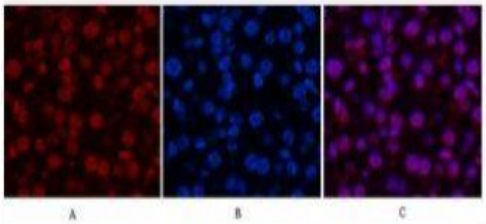
Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,Histone H3 Monoclonal Antibody(1G1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,Histone H3 Monoclonal Antibody(1G1) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-liver-cancer tissue. 1,Histone H3 Monoclonal Antibody(1G1)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Mouse-liver tissue. 1,Histone H3 Monoclonal Antibody(1G1)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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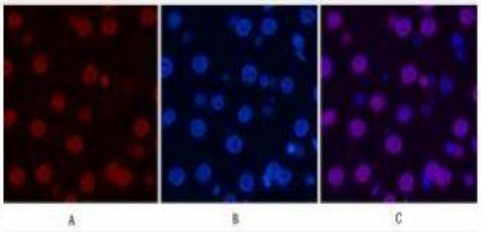
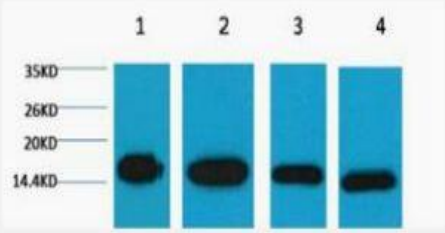
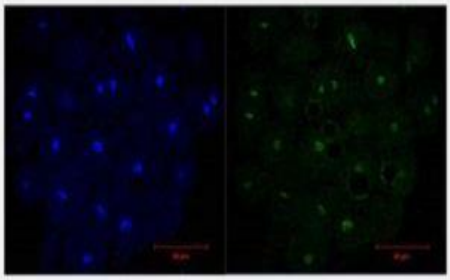


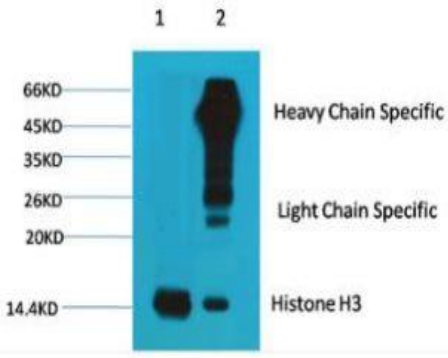
Immunofluorescence analysis of Rat-liver tissue. 1,Histone H3 Monoclonal Antibody(1G1)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) Hela, 2) Raw, 3) Mouse Brain Tissue, 4) Rat Brain Tissue, diluted at 1:5000. cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



IF analysis of Hela, diluted at 1:200.



1) Input: Hela Cell Lysate 2) IP product: IP dilute 1:200