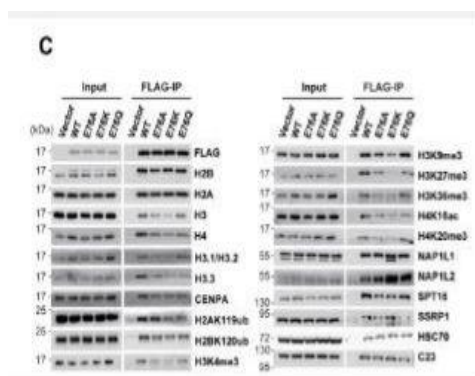


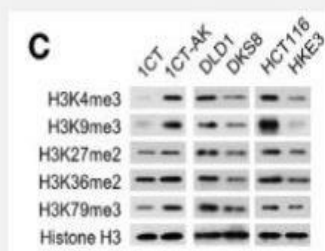
Histone H3 (Tri Methyl Lys79)
Monoclonal Antibody(3G3)

| | |
|------------------------------|---|
| Catalog No. | IMB0045 |
| Reactivity | Human;Mouse;Rat |
| 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: 1:500-2000 IP:1:200 IF: 1:200 IHC: 1:50-300 |
| Purification | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific |
| Concentration | - |
| Storage&Stability | -20°C/1 year |
| Background | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromatin. DNA is wrapped around a nucleosome, an octamer composed of pairs of each of the four core histone proteins. The DNA is held together through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form a higher order structure. H3.3 is a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene are found in all tissues. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. |
| Subcellular Location. | Nucleus. Chromosome. |
| Biological MW | 15273 |

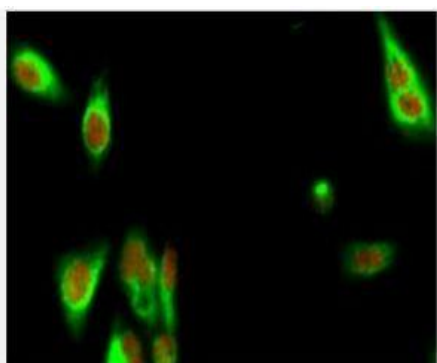
Products Images:



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).



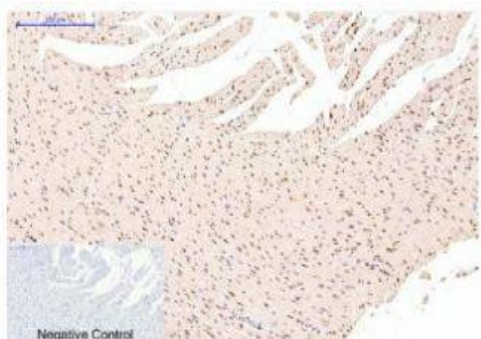
Wong, Chi Chun, et al. "In Colorectal Cancer Cells With Mutant KRAS, SLC25A22-Mediated Glutaminolysis Reduces DNA Demethylation to Increase WNT Signaling, Stemness, and Drug Resistance." *Gastroenterology* 159.6 (2020): 2163-2180.



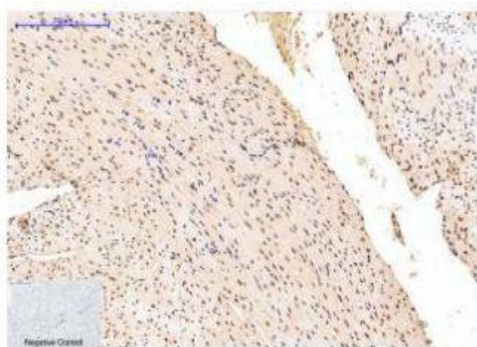
Immunofluorescence analysis of Hela cell. 1, Bek Polyclonal Antibody (green) was diluted at 1:200 (4° overnight). (red) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 594 Catalog: RS3608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



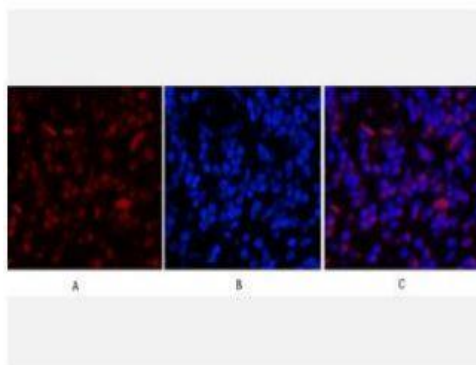
Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, Histone H3 (Tri Methyl Lys79) Monoclonal Antibody (3G3) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



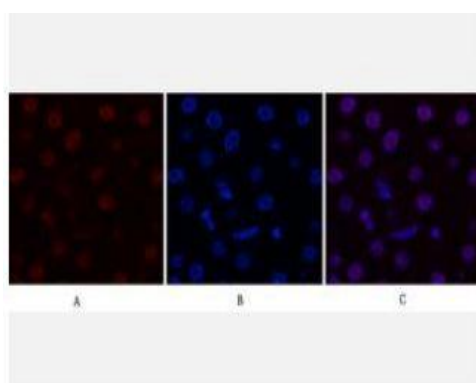
Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1, Histone H3 (Tri Methyl Lys79) Monoclonal Antibody (3G3) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



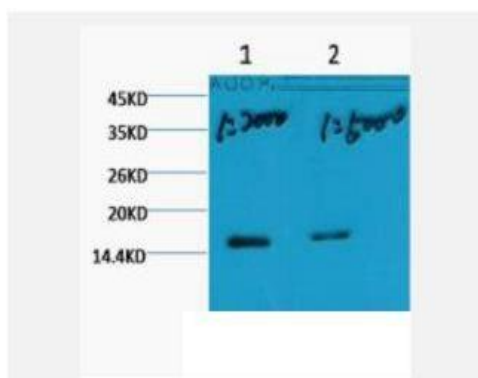
Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1, Histone H3 (Tri Methyl Lys79) Monoclonal Antibody(3G3) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



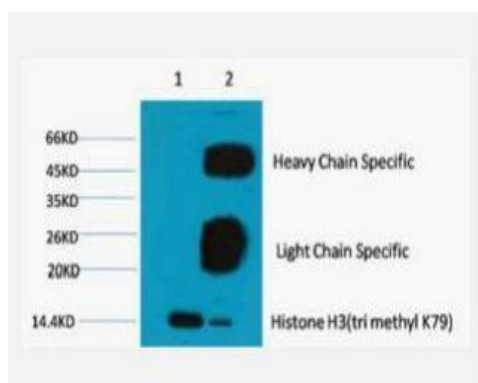
Immunofluorescence analysis of Human-appendix tissue. 1, Histone H3 (Tri Methyl Lys79) Monoclonal Antibody(3G3) (red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of Rat-liver tissue. 1, Histone H3 (Tri Methyl Lys79) Monoclonal Antibody(3G3)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled 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 Hela, diluted at 1) 1:2000 2) 1:5000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



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