

Anti-Histone H3 (mono methyl K18) HIST1H3A Rabbit Monoclonal Antibody

Catalog Number: M12477-6

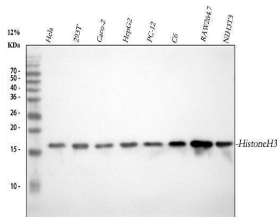
Overview

Product Name	Anti-Histone H3 (mono methyl K18) HIST1H3A Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Histone H3 (mono methyl K18) HIST1H3A Rabbit Monoclonal Antibody catalog # M12477-6. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal DFC-8
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P68431

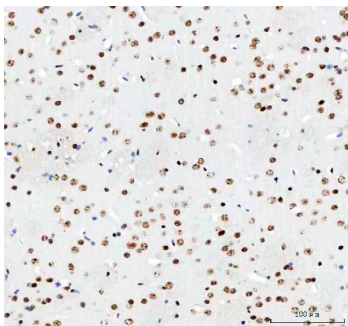
Technical Details

Immunogen	A synthesized peptide derived from human Histone H3 (mono methyl K18)
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200

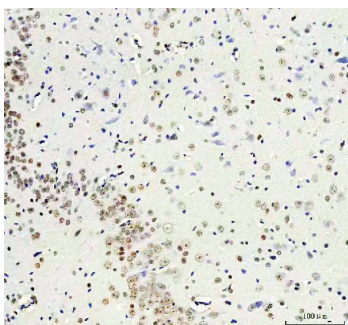
Anti-Histone H3 (mono methyl K18) HIST1H3A Rabbit Monoclonal Antibody (M12477-6) Images



Western blot analysis of Histone H3 (mono methyl K18) using anti-Histone H3 (mono methyl K18) antibody (M12477-6). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human CACO-2 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: human PC-12 whole cell lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse RAW264.7 whole cell lysates, Lane 8: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Histone H3 (mono methyl K18) antigen affinity purified monoclonal antibody (Catalog # M12477-6) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Histone H3 (mono methyl K18) at approximately 17 kDa. The expected band size for Histone H3 (mono methyl K18) is at 15 kDa.

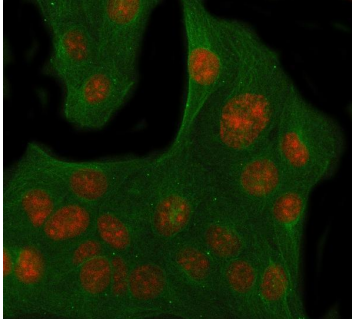


IHC analysis of Histone H3 (mono methyl K18) using anti-Histone H3 (mono methyl K18) antibody (M12477-6). Histone H3 (mono methyl K18) was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:500 rabbit anti-Histone H3 (mono methyl K18) Antibody (M12477-6) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Histone H3 (mono methyl K18) using anti-Histone H3 (mono methyl K18) antibody (M12477-6). Histone H3 (mono methyl K18) was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:500 rabbit anti-Histone H3 (mono methyl K18) Antibody (M12477-6) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and

incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of Histone H3 (mono methyl K18) using anti-Histone H3 (mono methyl K18) antibody (M12477-6) and anti-Beta Tubulin antibody (M01857-3). Histone H3 (mono methyl K18) was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated at 1:100 with rabbit anti-Histone H3 (mono methyl K18) Antibody (M12477-6) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

2 Publications Citing This Product

1. PubMed ID: 15052685, Antiproliferative and proapoptotic effects of somatostatin on activated hepatic stellate cells
2. PubMed ID: 24503896, Role of endoplasmic reticulum stress in apoptosis of differentiated mouse podocytes induced by high glucose

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