### **Product datasheet**

# Anti-Histone H3 (acetyl K14) Antibody (Clone#BID-8)

Catalog Number: BM4151



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information		
Product Name	Anti-Histone H3 (acetyl K14) Antibody (Clone#BID-8)	
Gene Name	H3C1/H3C2/H3C3/H3C4/H3C6/H3C7/H3C8/H3C10/H3C11/H3C12	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human Histone H3 (acetyl K14)	
Purification	Affinity-chromatography	
Observed MW	17 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluoreso ImmunoPrecipitation (IP):	1:500-2000 1:50-200 cence (ICC/IF):1:50-200 1:20

### **Storage**

12 months from date of receipt, -20°C as supplied.

## **Background Information**

Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyl transferases and histone demethylases.

## **Selected Validation Data**

#### **Product datasheet**

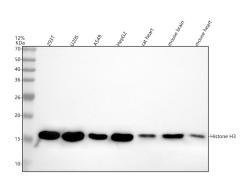
# Anti-Histone H3 (acetyl K14) Antibody (Clone#BID-8)

Catalog Number: BM4151



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com



Western blot analysis of anti-Histone H3 (acetyl K14) antibody (BM4151). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,

Lane 2: human U2OS whole cell lysates,

Lane 3: human A549 whole cell lysates,

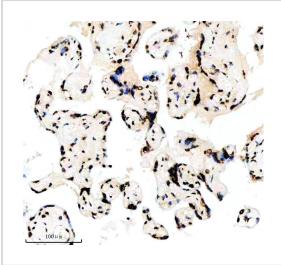
Lane 4: human HepG2 whole cell lysates,

Lane 5: rat heart tissue lysates,

Lane 6: mouse brain tissue lysates,

Lane 7: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Histone H3 (acetyl K14) antigen affinity purified monoclonal antibody (BM4151) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Histone H3 (acetyl K14) at approximately 17 kDa. The expected band size for Histone H3 (acetyl K14) is at 15 kDa.



IHC analysis of Histone H3 (acetyl K14) using anti-Histone H3 (acetyl K14) antibody (BM4151) .

Histone H3 (acetyl K14) was detected in a paraffin-embedded section of human placenta tissue. The tissue section was incubated with rabbit anti-Histone H3 (acetyl K14) Antibody (BM4151) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.