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Product datasheet for TA387647M

H2BC4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ICC, IF, IP, WB
Recommended Dilution:	Recommended dilution: WB:1:100-1:1000, ICC:1:10-1:100, IF:1:1-1:10, IP:1:200-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around site of Acetyl-Lys (20) derived from Human Histone H2B type 1-C/E/F/G/I
Formulation:	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Concentration:	lot specific
Purification:	Antigen Affinity Purified
Conjugation:	Unconjugated
Storage:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Stability:	1 year from dispatch.
Database Link:	P62807
Background:	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

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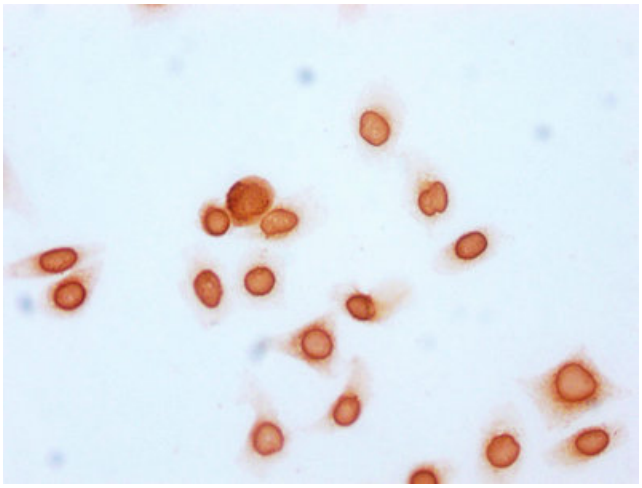
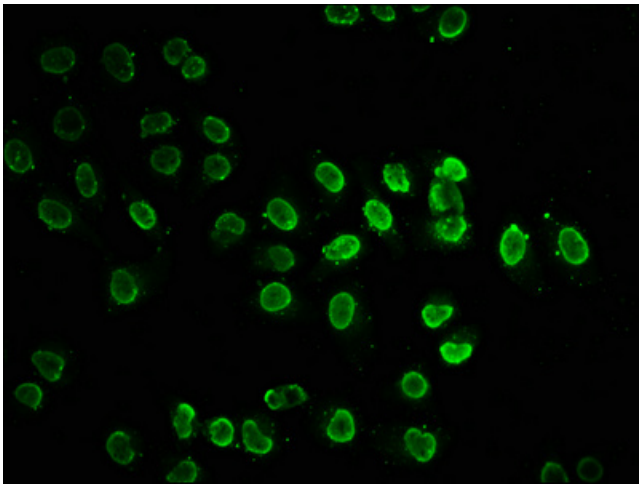
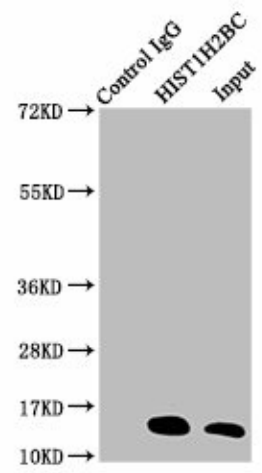
Product images:



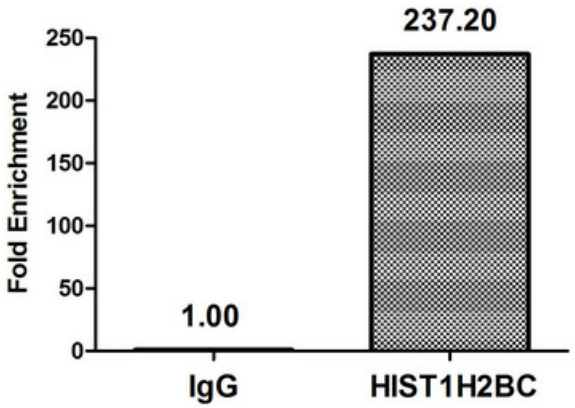
Immunocytochemistry analysis of [TA387647] diluted at 1:15 and staining in Hela cells (treated with 30mM sodium butyrate for 4h) performed on a Leica BondTM system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



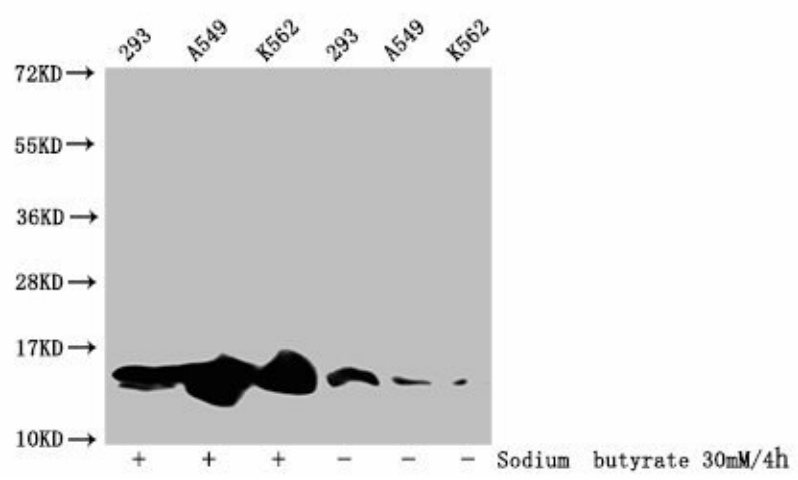
Immunofluorescence staining of Hela cells (treated with 30mM sodium butyrate for 4h) with [TA387647] at 1:7.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunoprecipitating HIST1H2BC in A549 whole cell lysate (treated with 30mM sodium butyrate for 4h)
Lane 1: Rabbit control IgG instead of [TA387647] in A549 whole cell lysate (treated with 30mM sodium butyrate for 4h). For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
Lane 2: [TA387647] (5µg) + A549 whole cell lysate (treated with 30mM sodium butyrate for 4h) (500µg)
Lane 3: A549 whole cell lysate (treated with 30mM sodium butyrate for 4h) (20µg)



Chromatin Immunoprecipitation Hela (10^6, treated with 30mM sodium butyrate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H2BC ([TA387647]) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.



Western Blot
Detected samples: 293 whole cell lysate, A549 whole cell lysate, K562 whole cell lysate;
Untreated (-) or treated (+) with 30mM sodium butyrate for 4h
All lanes: HIST1H2BC antibody at 1:100
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 14 kDa
Observed band size: 14 kDa