

## Product datasheet for **TA387613**

### H2BC4 Rabbit Polyclonal Antibody

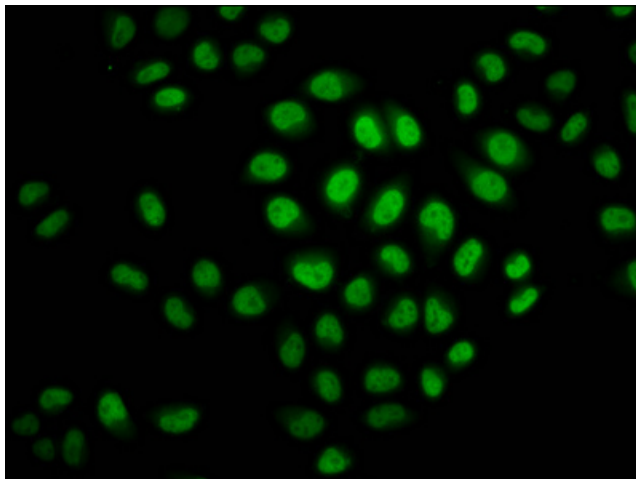
#### Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IP, WB
Recommended Dilution:	Recommended dilution: WB:1:100-1:1000, IF:1:20-1:200, IP:1:200-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around site of Crotonyl-Lys (23) 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:	<a href="#">P62807</a>
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.

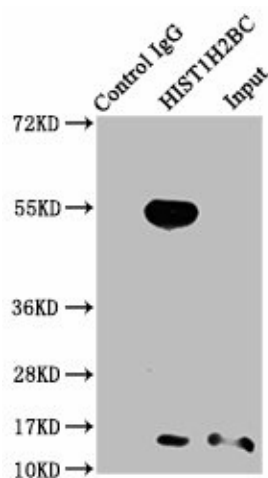


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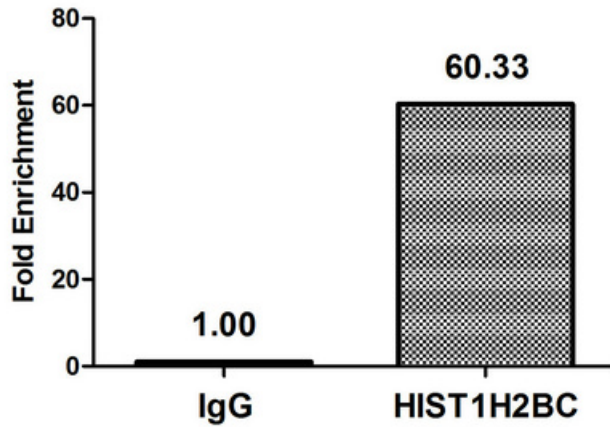
## Product images:



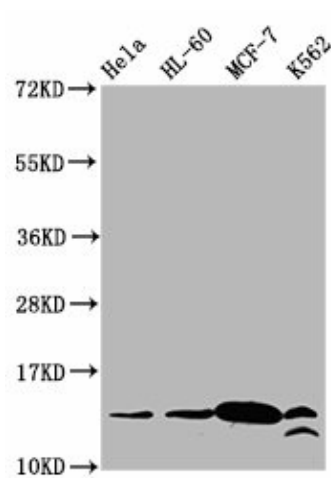
Immunofluorescence staining of HeLa cells (treated with 30mM sodium crotonylate for 4h) with TA387613 at 1:37.5, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunoprecipitating HIST1H2BC in K562 whole cell lysate  
Lane 1: Rabbit control IgG instead of TA387613 in K562 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)  
Lane 2: TA387613 (3µg) + K562 whole cell lysate (500µg)  
Lane 3: K562 whole cell lysate (20µg)



Chromatin Immunoprecipitation HeLa ( $4 \times 10^6$ , treated with 30mM sodium crotonylate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 $\mu$ g anti-HIST1H2BC (TA387613) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.



**Western Blot**

Positive WB detected in: HeLa whole cell lysate, HL60 whole cell lysate, MCF-7 whole cell lysate, K562 whole cell lysate  
 All lanes: HIST1H2BC antibody at 1.8 $\mu$ g/ml  
 Secondary  
 Goat polyclonal to rabbit IgG at 1/50000 dilution  
 Predicted band size: 14 kDa  
 Observed band size: 14 kDa