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# Product datasheet for TA387656M

## H2BC4 Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ICC, IF, WB |
| **Recommended Dilution:** | Recommended dilution: WB:1:100-1:1000, ICC:1:20-1:200, IF:1:10-1:100 |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Peptide sequence around site of 2-hydroxyisobutyryl-Lys (24) derived from Human Histone H2B type 1-C/E/F/G/I |
| **Formulation:** | Preservative: 0.03% Proclin 300<br>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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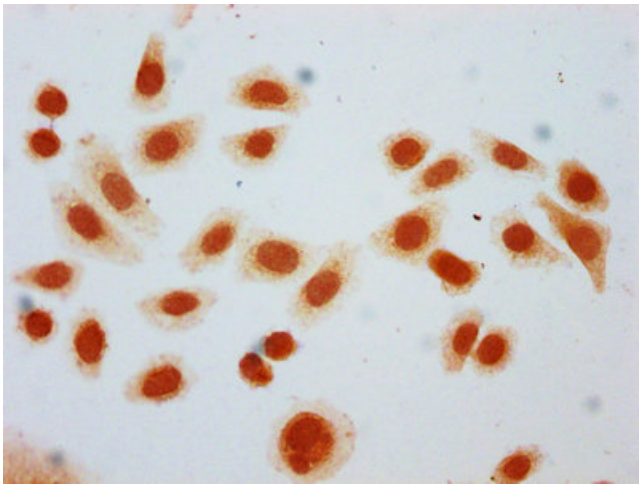
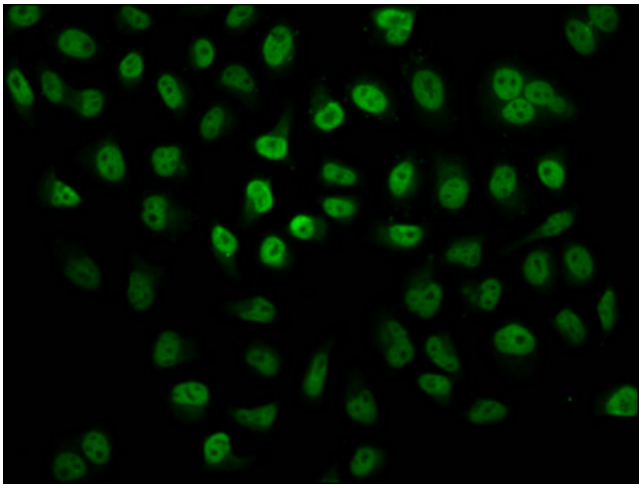
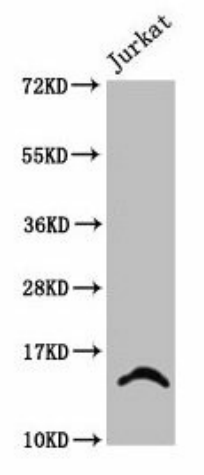
## Product images:



Immunocytochemistry analysis of [TA387656] diluted at 1:25 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 [TA387656] at 1:12.5, 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).




Western Blot
Positive WB detected in: Jurkat whole cell lysate
(treated with 30mM sodium butyrate for 4h)
All lanes: HIST1H2BC antibody at 2.4µg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 14 kDa
Observed band size: 14 kDa