

## Rabbit anti-Human H3K27me3 Monoclonal Antibody | anti-H3K27me3 antibody

Anti-H3K27me3 [BT164]

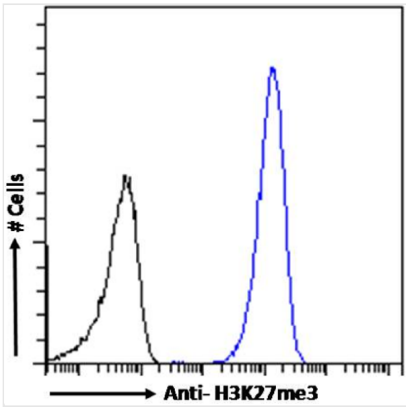
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                            |
|-----------|--------|------------|---------------------------------------------------------------------------------------------------------|
| AAA72188  | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Western Blot, ELISA |

### PRODUCT SYNONYMS

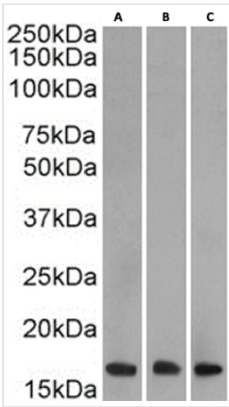
H3K27me3; Monoclonal Antibody; Anti-H3K27me3 [BT164]; trimethyl-Histone H3 (Lys27); histone H3; Histone H3 trimethylated at Lysine 27; nucleosome; H3K27ME3; anti-H3K27me3 antibody

### PRODUCT SPECIFICATIONS

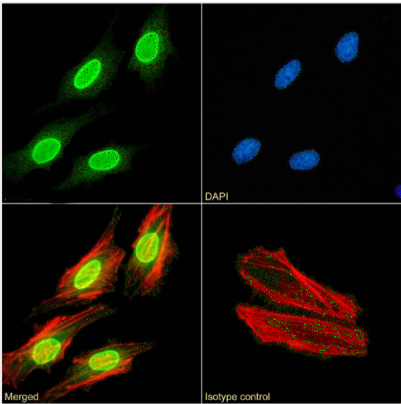
|                                                    |                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                   |
| Reactivity                                         | Human                                                                                                                                                                                    |
| Clonality                                          | Monoclonal                                                                                                                                                                               |
| Isotype                                            | Rabbit IgG, kappa                                                                                                                                                                        |
| Clone Number                                       | BT164                                                                                                                                                                                    |
| Specificity                                        | The epitope of BT164 was mapped in the N-terminal tail of histone H3 (27-KSAPAT-32) and included the apoptosis-induced trimethylation of K27.                                            |
| Purity/Purification                                | Purified antibody. Protein A affinity purified                                                                                                                                           |
| Form/Format                                        | PBS with 0.02% Proclin 300.                                                                                                                                                              |
| Concentration                                      | 1mg/ml (varies by lot)                                                                                                                                                                   |
| Applicable Applications for anti-H3K27me3 antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot), ELISA                                                       |
| Chimeric Use Statement                             | This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques. |
| PMID                                               | 20699234                                                                                                                                                                                 |
| Preparation and Storage                            | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                           |



**FCM/FACS (Flow Cytometry)**  
Flow cytometry using the anti-H3K27me3 antibody BT164 (AAA72188). HeLa cells were fixed using 2% PFA and stained with anti-unknown specificity antibody or the rabbit IgG1 version of BT164 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



**WB (Western Blot)**  
Western Blot using anti-H3K27me3 antibody BT164 (AAA72188) Nuclear lysate of HeLa(A) (0.0003ug/ml), Jurkat(B) (0.0003ug/ml) and K562(C) (0.01ug/ml) (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of BT164 ( ) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



**IF (Immunofluorescence)**  
Immunofluorescence staining of fixed HeLa cells with anti-H3K27me3 antibody BT164 (AAA72188) Immunofluorescence analysis of paraformaldehyde fixed HeLa cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of BT164 ( ) at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue) and the actin stain is phalloidin (red). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-H3K27me3 antibody | Recombinant monoclonal antibody to H3K27me3. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma BT164.<br>BT164 is a mice-derived lupus antibody that was established by selection on apoptotic chromatin.                                                                                |
| Product Categories/Family for anti-H3K27me3 antibody   | <a href="#">lupus</a> ; <a href="#">SLE</a> ; <a href="#">chromatin</a> ; <a href="#">nucleosome</a> ; <a href="#">apoptosis</a> ; <a href="#">autoimmune disease</a> ; <a href="#">autoimmunity</a>                                                                                                                    |
| References                                             | van Bavel et al. Apoptosis-induced histone H3 methylation is targeted by autoantibodies in systemic lupus erythematosus. Ann Rheum Dis. 2011 Jan;70(1):201-7. doi: 10.1136/ard.2010.129320. Epub 2010 Aug 10.<br>Note on publication: This article describes the generation and characterization of the antibody BT164. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.