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## Product Datasheet

### H3K27me3 antibody (orb758979)

**Description**

Rabbit monoclonal antibody to H3K27me3

**Species/Host**

Mouse

**Reactivity**

Human

**Conjugation**

Unconjugated

**Tested Applications**

ELISA, ICC, IF, IHC, IP, WB

**Immunogen**

BT164 is a mice-derived lupus antibody that was established by selection on apoptotic chromatin.

**Target**

H3K27me3

**Preservatives**

PBS with 0.02% Proclin 300.

**Concentration**

1 mg/ml

**Storage**

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Note**

For research use only

**Application notes**

BT164 recognizes an apoptosis-induced trimethylation of K27 on N-terminal tail of histone H3 which is a target for autoantibodies in patients and mice with SLE (systemic lupus erythematosus) (van Bavel et al., 2011; pmid: 20699234). Consequently, this antibody is recommended for the detection and studying of SLE. ELISA studies demonstrated that BT164 exhibits preferential activity with the apoptotic nucleosomes in comparison with the control nucleosomes (van Bavel et al., 2011; pmid: 20699234). It can be used for the detection of apoptosis in general. Furthermore, this antibody was demonstrated to label cells with methylated histone-3 on K27 via immunofluorescence and it also immunoprecipitated chromatin with such a methylation profile, further demonstrating its ability to specifically recognize markers characteristic of SLE (van Bavel et al., 2011; pmid: 20699234).

**Isotype**

IgG

**Clonality**

Monoclonal

**Purity**

Purified

**Expiration Date**

12 months from date of receipt.