

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 10-9560: Recombinant Rabbit Monoclonal Antibody to Dimethylated Histone H3 Lysine 79, H3K79me2 (Clone: RM181)(Discontinued)

Clonality: Monoclonal Clone Name: RM181

**Application :** WB,ELISA,Multiplex,ChIP,IHC

Reactivity: All Species
Gene: H3F3A
Gene ID: 3020
Uniprot ID: P84243
Format: Purified
Alternative Name: Histone H3.3
Isotype: Rabbit IgG

Immunogen Information: A dimethyl-peptide corresponding to Dimethyl-Histone H3 (Lys79).

## **Product Info**

**Amount :** 100 μg

**Purification:** Protein A affinity purified from an animal origin-free culture supernatant **Content:** 1 mg/ml in 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide

**Storage condition :** Store at -20°C. Avoid repeated freeze and thaw cycles.

## **Application Note**

Clone RM181 reacts to Histone H3 dimethylated at Lysine 79 (K79me2). ). Very slightly cross-reacts with monomethylated Lysine 79 (K79me1) at high concentration. No cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3. Western Blot: 0.25 A A A A A B A B A B A B

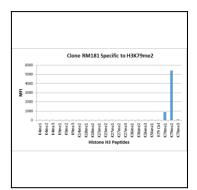


Figure 1: Clone: RM181 specifically reacts to Histone H3 dimethylated at Lysine 79 (K79me2). Very slightly cross reactivity with monomethylated Lysine 14 (K14me1), and no cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3.



9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

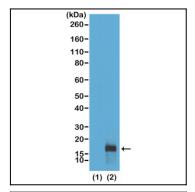


Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM181 at 0.25  $\mu$ g/ml, showed a band of histone H3 dimethylated at Lysine 79 (K79me2) in HeLa cells.

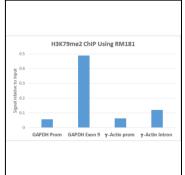


Figure 3: ChIP performed on HeLa cells using H3K79me2 antibody (Clone: RM181, 5ug). Real-time PCR was performed using primers specific to the gene indicated.

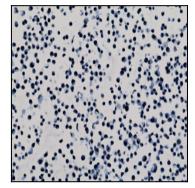


Figure 4: Immunohistochemistry staining of HepG2 cells using Anti-Dimethyl-Histone H3 (Lys79) antibody, Clone: RM181.