Anti H3K27me3, Clone RM175

**Catalogue no:** 700013  
**Applications:** ChIP, WB, ELISA, Multiplex  
**Concentration:** 1mg/ml  
**Size:** 100µl  
**Specificity:** Human

**Source:** Rabbit  
**Type:** Monoclonal  
**Purification:** Protein A (affinity purified)  
**Storage:** +2- +8°C

**Background:**  
Histone 3 (H3) is one of the core histone proteins, comprising the protein component of chromatin. H3 is ubiquitous within chromosomes and can be found bound to most gene sequences throughout the genome. H3K27me3 is a histone mark associated with repressive transcription and a closed chromatin structure.

**Immunogen:**  
A trimethyl-peptide corresponding to trimethyl-Histone H3 (Lys 27).

**Buffer:**  
PBS with 1% BSA and 0.09% sodium azide.

**Applications:**

<table>
<thead>
<tr>
<th>Application</th>
<th>Suggested Dilution</th>
<th>Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromatin Immunoprecipitation</td>
<td>2µg: 1µg (antibody: chromatin)</td>
<td>1</td>
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<tr>
<td>Western Blot</td>
<td>15µg/mL - 2µg/mL</td>
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<tr>
<td>ELISA</td>
<td>0.5µg/mL - 1µg/mL</td>
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<tr>
<td>Multiplex</td>
<td>0.1µg/mL - 0.5µg/mL</td>
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*Please note: Optimal antibody dilutions should be determined by the user. These volumes are stated as guidelines only.*

**Fig 1. H3K27me3 ChIP qPCR**

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® ChIP-Seq spin column sonication kit for qPCR (Cat no. 500189) with 30µg of chromatin from Hec50 cells and 5µg of Anti-H3K27me3 antibody. qPCR was used to analyse the enrichment of H3K27me3 onto the positive gene target locus compared with the negative gene target locus.

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*This product is for research use only. There is a possibility that results may vary between antibody lots.*