

## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Rat Anti-Human Histone H4 (Dimethyl K20)

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-01533

**Species**  
Human

**Isotype**  
IgG2a

### Preparation

Purified IgG prepared by affinity chromatography on Protein G

**Synonyms:** H4/A, H4/B, H4/C, H4/D, H4/E, H4/G, H4/H, H4/I, H4/J, H4/K, H4/M, H4/N, H4F2, H4FA, H4FB, H4FC, H4FD, H4FE, H4FG, H4FH, H4FI, H4FJ, H4FK, H4FM, H4FN, HIST2H4

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Preservative Stabilizers:** 0.09% Sodium Azide

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### Specificity

This product recognizes histone H4 when it is dimethylated at K20. It does not bind to non-methylated H4. K20 is the only site on histone H4 methylated in vivo.

This antibody has been reported for use in chromatin immunoprecipitation assay(1).

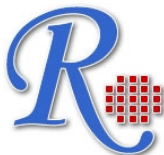
### Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
Immunoprecipitation (1)	•			
Western Blotting	•			1/100 - 1/1000

**Note:** Other applications are not tested yet. Optimal dilutions should be determined.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

### Reference

1. Beisel, C. *et al.* (2002) Histone methylation by the Drosophila epigenetic transcriptional regulator Ash1. *Nature* 419: 857-862.

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