

**DATASHEET**

**Histone H1 (TriMethyl-K25) Rabbit Polyclonal Antibody**

CAT. NO. APA12412

**KEY FEATURES**

|               |   |               |                    |
|---------------|---|---------------|--------------------|
| Target        | Histone H1 (TriMethyl-K25)  | Source / Host | Rabbit             |
| Reactivity    | Human   | Clonality     | Polyclonal         |
| Applications  | WB, IHC   | Conjugation   | Unconjugated       |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at-20°C |

**BACKGROUND**

Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber . Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers and promote formation of the H3K27me3 mark by the PRC2/EED-EZH2 complex . Also acts as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|     |                 |
|-----|-----------------|
| WB  | 1:1000 - 1:2000 |
| IHC | 1:200 - 1:500   |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

|                   |  |
|-------------------|--|
| Description       | Rabbit polyclonal antibody to Histone H1 (TriMethyl-K25)   |
| Specificity       | Recognizes endogenous levels of Histone H1 protein only when Tri-methylated at K25.  |
| Antibody Type     | Primary antibody   |
| Immunogen         | KLH-conjugated synthetic Tri-methylated peptide corresponding to residues surrounding K25 of human Histone H1 protein. The exact sequence is proprietary.  |
| Purification      | The antibody was purified by immunogen affinity chromatography.  |
| Molecular Weight  | Predicted: 21; Observed: 17-25 kD  |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.  |
| Alternative Names | HIST1H1A; H1F1; Histone H1.1; Histone H1a; HIST1H1C; H1F2; Histone H1.2; Histone H1c; Histone H1d; Histone H1s-1; HIST1H1D; H1F3; Histone H1.3; Histone H1c; Histone H1s-2; HIST1H1E; H1F4; Histone H1.4; Histone H1b; Histone H1s-4 |
| Gene Symbol       | HIST1H1A; HIST1H1C; HIST1H1D; HIST1H1E   |
| Entrez Gene       | 3024; 3006; 3007; 3008(Human)  |
| SwissProt         | Q02539; P16403; P16402; P10412(Human)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

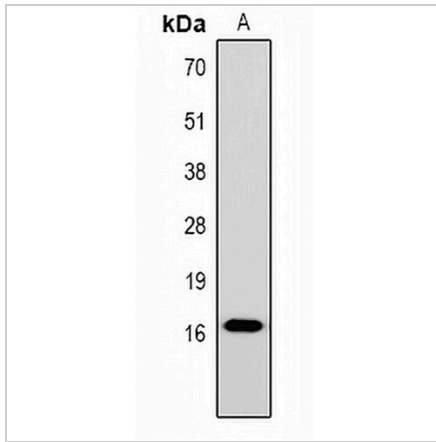
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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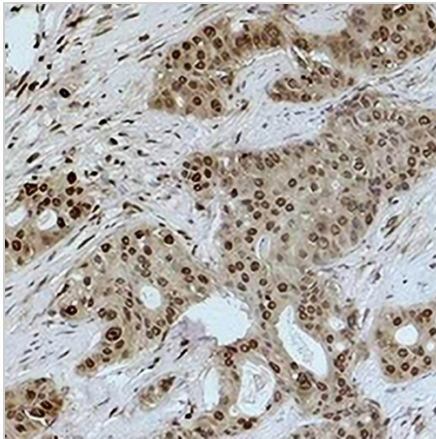
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**DATA**



Western blot analysis of Histone H1 (TriMethyl-K25) expression in HeLa (A) whole cell lysates. (Predicted band size: 21; 22 kD; Observed band size: 17-25 kD)



Immunohistochemical analysis of Histone H1 (TriMethyl-K25) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.