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Datasheet for ABIN6971779

## anti-Histone H2A antibody (ubLys119)

### 2 Images

#### Overview

Quantity:	100 µL
Target:	Histone H2A
Binding Specificity:	ubLys119
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H2A antibody is un-conjugated
Application:	Western Blotting (WB), Dot Blot (DB)

#### Product Details

Immunogen:	This antibody was raised against a branched peptide corresponding to the ubiquitin conjugation site at Lys119 of human Histone H2A.
Isotype:	IgG
Characteristics:	In humans, attachment of ubiquitin to Histone protein 2A (H2A) on lysine residue 119 (H2AK119Ub) is one of the most prevalent histone marks, and is estimated to occur on 5-15 % of histones genome-wide <sup>4</sup> . In general, H2AK119Ub is characteristic of repressed developmental genes, and is also tightly linked to levels of other histone marks such as lysine methylation and acetylation. H2AK119Ub is attached to histones by the Really Interesting New Gene (RING) ubiquitin E3-ligase Polycomb Repressive Complex 1 (PRC1), and removed by the Polycomb Repressive-Deubiquitinase (PR-DUB) complex, which plays a vital role in regulating H2AK119Ub histone marks, and mutations in human PR-DUB genes lead to a spectrum of malignancies. Histone H2AK119ub antibody (pAb) was raised in a Rabbit host. It has been

## Product Details

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validated for use in Dot blot and Western blot, it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.

Purification: Affinity Purified

## Target Details

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Target: Histone H2A

Abstract: [Histone H2A Products](#)

Molecular Weight: 23 kDa

NCBI Accession: [NP\\_003508](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

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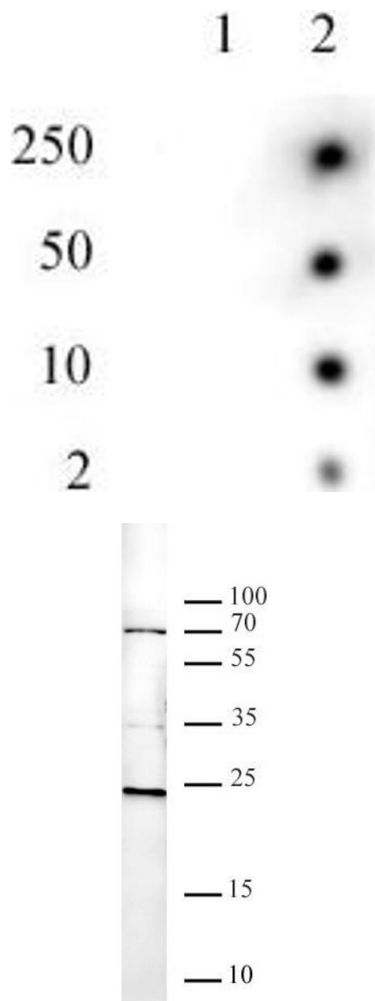
Buffer: 70 mM Tris ( pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol, and 0.035 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



#### Dot Blot

**Image 1.** Histone H2AK119ub antibody tested by Dot blot. Lane 1: unmodified Histone H2A. Lane 2: ubiquityl-lysine 119 H2A. Peptides were spotted on membrane and probed with antibody at a dilution of 1:1000.

#### Western Blotting

**Image 2.** Histone H2AK119ub antibody tested by Western blot. 20 µg of HeLa nuclear extract\* was run on SDS-PAGE and probed with antibody at a 1:500 dilution.