

Rabbit Histone H2AK119ub Polyclonal Antibody | anti-H2AK119ub antibody

Histone H2AK119ub antibody (pAb)

CATALOG # AAA60097	HOST Rabbit	REACTIVITY Human, Wide Range Predicted	APPLICATIONS Western Blot, Dot Blot
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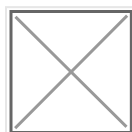
PRODUCT SYNONYMS

Histone H2AK119ub; Polyclonal Antibody; Histone H2AK119ub antibody (pAb); anti-H2AK119ub antibody

PRODUCT SPECIFICATIONS

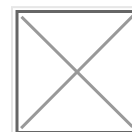
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	70mM Tris (pH8), 105mM NaCl, 31mM glycine, 0.07mM EDTA, 30% glycerol, and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H2AK119ub antibody	WB (Western Blot), DB (Dot Blot)
Immunogen	This antibody was raised against a branched peptide corresponding to the ubiquitin conjugation site at Lys119 of human Histone H2A.
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

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.



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for anti-H2AK119ub antibody	Short Description: Our Histone H2AK119ub antibody (pAb) was raised in a Rabbit host. It has been 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. Background: 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-wide⁴. 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.
Product Categories/Family for anti-H2AK119ub antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	24638446
NCBI GeneID	8338
NCBI Accession #	NP_003508
NCBI GenBank Nucleotide #	NM_003517
UniProt Accession #	Q16777
Molecular Weight	14kDa
NCBI Official Full Name	histone H2A type 2-C
NCBI Official Synonym Full Names	histone cluster 2 H2A family member c
NCBI Official Symbol	HIST2H2AC
NCBI Official Synonym Symbols	H2A; H2A/q; H2AFQ; H2A-GL101
NCBI Protein Information	histone H2A type 2-C
UniProt Protein Name	Histone H2A type 2-C
UniProt Gene Name	HIST2H2AC
UniProt Synonym Gene Names	H2AFQ
UniProt Entry Name	H2A2C_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.