

## Asymmetric DiMethyl-Histone H3-R17 pAb

<b>Catalog No</b>	A2421	<b>Category</b>	Methylated Antibodies
<b>Applications</b>	WB,IHC,IF,IP	<b>Observed MW</b>	17kDa
<b>Cross-Reactivity</b>	Human,Mouse,Rat,Other (Wide Range)	<b>Calculated MW</b>	15kDa

### Immunogen Information

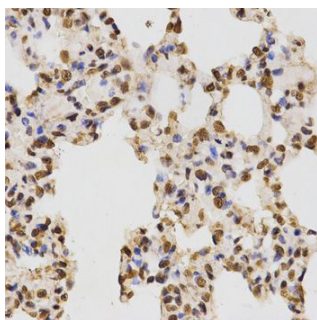
<b>Immunogen</b>	A synthetic methylated peptide corresponding to residues surrounding Arg17 of human histone H3
<b>Gene ID</b>	8356
<b>Swiss Prot</b>	P68431
<b>Synonyms</b>	H3/j,H3FJ

### Product information

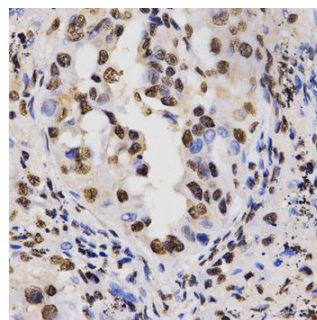
<b>Source</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purification
<b>Storage</b>	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

### Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3.



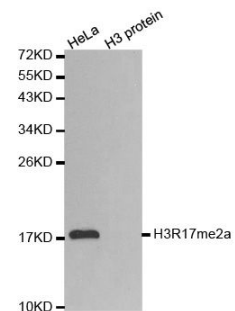
Immunohistochemistry of paraffin-embedded rat lung using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421) at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded human lung cancer using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421) at dilution of 1:200 (40x lens).

### Recommended Dilutions

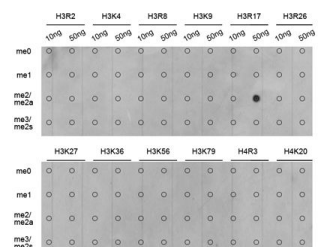
WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200
IP	1:50 - 1:200



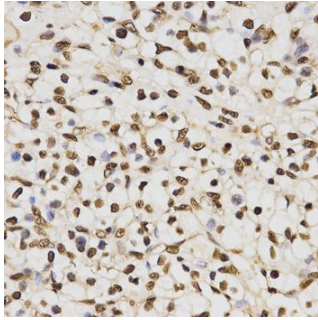
Western blot analysis of extracts of various cell lines, using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421).

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

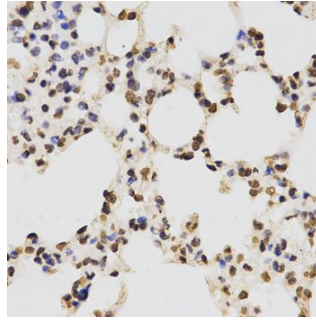
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.



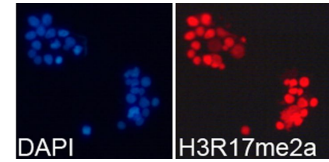
Dot-blot analysis of all sorts of methylation peptides using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421).



Immunohistochemistry of paraffin-embedded human kidney cancer using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421) at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse lung using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421) at dilution of 1:200 (40x lens).



Immunofluorescence analysis of 293T cells using Asymmetric DiMethyl-Histone H3-R17 antibody (A2421). Blue: DAPI for nuclear staining.