ARG51679
anti-Histone H3 phospho (Ser10) antibody

Package: 100 μl, 50 μl
Store at: -20°C

Summary

Product Description: Rabbit Polyclonal antibody recognizes Histone H3 phospho (Ser10)
Tested Reactivity: Hu, Ms, Rat, Cydippids
Tested Application: ICC/IF, IHC-P, WB
Host: Rabbit
Clonality: Polyclonal
Isotype: IgG
Target Name: Histone H3
Antigen Species: Human
Immunogen: Peptide sequence around phosphorylation site of serine 10 (R-K-S(p)-T-G) derived from Human Histone H3.1.
Conjugation: Un-conjugated

Application Instructions

Application table

<table>
<thead>
<tr>
<th>Application</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>1:100 - 1:200</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1:50 - 1:100</td>
</tr>
<tr>
<td>WB</td>
<td>1:500 - 1:1000</td>
</tr>
</tbody>
</table>

Application Note: *The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form: Liquid
Purification: Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Buffer: PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative: 0.02% Sodium azide
Stabilizer: 50% Glycerol
Concentration: 1 mg/ml
Storage instruction: For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot
and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

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### Bioinformation

**Database links**

- **GeneID**: 8350 Human
- **Swiss-port**: # P68431 Human

**Gene Symbol**

HIST1H3A

**Gene Full Name**

histone cluster 1, H3a

**Background**

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

**Function**

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**Highlight**

Related products:
- Histone H3 antibodies;  
- Histone H3 Duos / Panels;  
- Anti-Rabbit IgG secondary antibodies;

Related news:
- Understanding Your Cells: Choose the right markers
- Choose the Best ZIKA Virus Antibodies
- Fight microcephaly with arigo

**Research Area**

Controls and Markers antibody; Gene Regulation antibody

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### Images

#### ARG51679 anti-Histone H3 phospho (Ser10) antibody ICC/IF image

Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG51679 anti-Histone H3 phospho (Ser10) antibody at 1:100 dilution. Left: primary antibody (orange). Middle: DAPI (blue). Right: Merge.

Secondary antibody: ARG21917 Goat anti-Rabbit IgG antibody (TRITC).

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#### ARG51679 anti-Histone H3 phospho (Ser10) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51679 anti-Histone H3 phospho (Ser10) antibody (left) or the same antibody preincubated with blocking peptide (right).
Western blot: Extracts from SK-BR-3 cells, treated with insulin and EGF, and pretreated with U0126 and LY294002 cells stained with ARG51679 anti-Histone H3 phospho (Ser10) antibody.