# Phospho-Histone H3 (Ser11) Antibody

<table>
<thead>
<tr>
<th>Cat.#: AF3358</th>
<th>Concn.: 1mg/ml</th>
<th>Mol.Wt.: 17kDa</th>
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<tbody>
<tr>
<td>Size: 100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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**Application:**
- WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500,
- ELISA(peptide) 1:20000-1:40000

**Reactivity:** Human, Mouse, Rat, Spodoptera frugiperda

**Purification:**
The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.

**Specificity:**
Phospho-Histone H3 (Ser11) Antibody detects endogenous levels of Histone H3 only when phosphorylated at Serine 11.

**Immunogen:**
A synthesized peptide derived from human Histone H3 around the phosphorylation site of Ser11.

**Uniprot:**
P68431/Q71DI3/P84243

**Description:**
H3F3A Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from various samples, using Phospho-Histone H3.1 (Ser11) Antibody.
- Lane 1: Heat-shock treated EC304 cells, blocked with antigen-specific peptides,
- Lane 2: Heat-shock treated EC304 cells,
- Lane 3: H2O2 treated A2780 cells,
- Lane 4: Heat-shock treated MDA-MB-231 cells,
- Lane 5: UV treated RAW264.7 cells.

Western blot analysis of Phospho-Histone H3.1 (Ser11) expression in various lysates.
- lane1 rat brain,
- lane2 rat brain with Non-phospho-blocking peptides,
- lane3 rat brain with Phospho-blocking peptides,
- lane4 mouse brain
AF3358 at 1/100 staining Rat testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/100 staining Rat ovary tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/100 staining Human lung cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/100 staining Human lung cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/100 staining Human mammary cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/100 staining Human esophageal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.
AF3358 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF3358 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.

AF3358 staining H2O2 treated Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AF3358) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.