



## Anti-Histone H2AX Antibody

**Alternative Names:** gamma-H2AX, H2A, H2A.X

**Catalogue Number:** AA17-10038-100ug

**Size:** 100 µg

### Background Information

Histone H2AX is expressed in all eukaryotic cells and in humans constitutes about 10% of the H2A histones in chromatin. It is a 15 kDa variant of Histone H2 required for the repair of double-stranded DNA breaks. In response to DNA double-strand break formation it is phosphorylated in the position of Ser139 producing gamma-H2AX. Histone H2AX is a substrate of several phosphoinositide 3-kinase-related protein kinases (PIKKs), such as ATM (ataxia teleangiectasia mutated), ATR (ATM and Rad3-related), or DNA-dependent protein kinase (DNA-PK).

### Product Information

<b>Antibody Type:</b>	Polyclonal	<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	Full length recombinant human Histone H2AX		
<b>Format:</b>	100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	WB WB: 2-4 µg/ml		

### Additional Information

<b>Subcellular location:</b>	Nucleus	<b>MW:</b>	15kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	3014	<b>Uniprot ID:</b>	P16104