Data Sheet (Cat.No.TMAH-00904)

Anti-Phospho-Histone H2AX (Ser139) Antibody (8H231)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8H231
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in:293 whole cell lysate -All lanes:Phospho-Histone H2AX (S139) antibody at 0.23μg/ml -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 15 KDa -Observed band size: 15 KDa 2. IHC image of TMAH-00904 diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
Application:	ELISA, WB
Recommended	WB:1:3000-1:10000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide
Antigen Species:	Human
Gene ID:	3014
Uniprot ID:	P16104
Synonyms:	p-Histone H2AX (Ser139);Histone H2AX (p-Ser139);Histone H2AX (p-S139);Phospho-Histone H2AX (S139);p-Histone H2AX (S139)
Biology Area:	Epigenetics and Nuclear Signaling

Research Background

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. 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. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.

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