Data Sheet (Cat.No.TMAB-01418)

Anti-Phospho-H2AFX (Ser139) Polyclonal Antibody

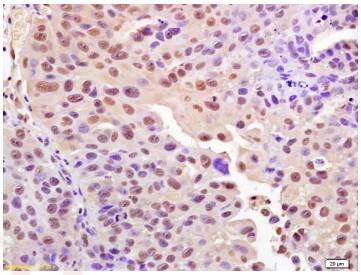
Product Details

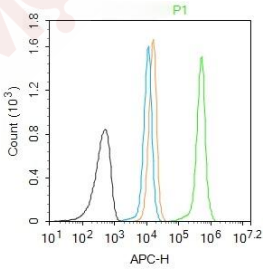
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 16 kDa. Actual: 15 kDa.
Purification:	Protein A purified

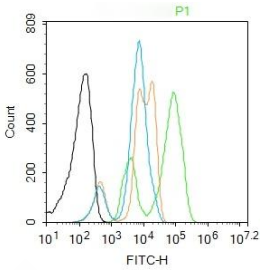
Applications

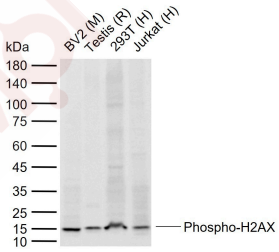
Verified Activity:	1. Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Phospho-Histone H2A.x (Ser139) Polyclonal Antibody, Unconjugated (TMAB-01418) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining. 2. Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-Phospho-Histone H2A.X (Ser139) antibody Dilution: 1 µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-APC Dilution: 1 µg/test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. 3. Blank control: Hela. Primary Antibody (green line): Rabbit Anti-Phospho-Histone H2A.X (Ser139) antibody (TMAB-01418) Dilution: 2 µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 1 µg/test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. 4. Sample: Lane 1: Mouse BV2 cell lysates Lane 2: Rat Testis tissue lysates Lane 3: Human 293T cell lysates Lane 4: Human Jurkat cell lysates

Primary: Anti-Phospho-H2AX (Ser139) (TMAB-01418) at 1/5000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 16 kDa
Observed band size: 15 kDa









Application:	FCM,IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

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:	KLH conjugated Synthesised phosphopeptide: human Histone H2AX around the phosphorylation site of Tyr139
Antigen Species:	Human
Gene ID:	3014
Uniprot ID:	P16104
Synonyms:	p-Histone H2AX (S139);Histone H2AX (p-Ser139);Phospho-Histone H2AX (S139);p-Histone H2AX (Ser139);Histone H2AX (p-S139)
Biology Area:	ChIP antibodies,DNA Damage Recognition,Unmodified,Variants

Research 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 encodes a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Jul 2008].

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