ELK Biotechnology

Histone H2A.X (phospho Ser139) rabbit pAb

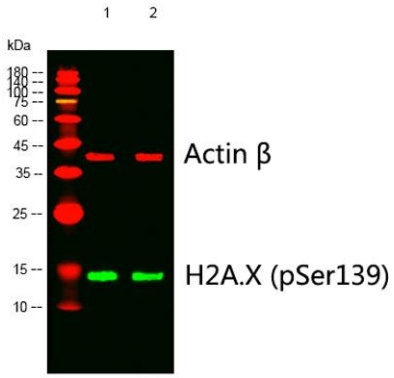
Cat No.:ES1326

For research use only

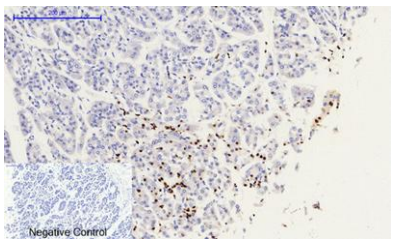
Overview

Product Name	Histone H2A.X (phospho Ser139) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat;Hamster
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Histone H2A.X around the phosphorylation site of Ser139. AA range:94-143
Specificity	Phospho-Histone H2A.X (S139) Polyclonal Antibody detects endogenous levels of Histone H2A.X protein only when phosphorylated at S139.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Histone H2A.x,γH2AX
Gene Name	H2AFX
Cellular localization	Nucleus . Chromosome .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	15 19kD
Human Gene ID	3014
Human Swiss-Prot Number	P16104
Alternative Names	H2AFX; H2AX; Histone H2A.x; H2a/x
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 replication-independent histone that is 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, Oct 2015],



Western blot analysis of lysates from 1) 4T1, 2) 293 cells, (Green) primary antibody was diluted at 1:1000, 4°over night, Dylight 800 secondary antibody(Immunoway:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (Immunoway



Immunohistochemical analysis of paraffin-embedded Human-stomach-cancer tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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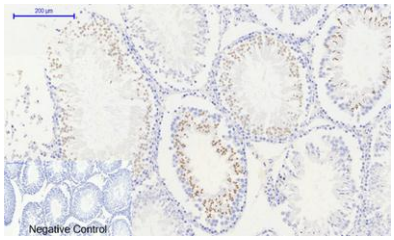
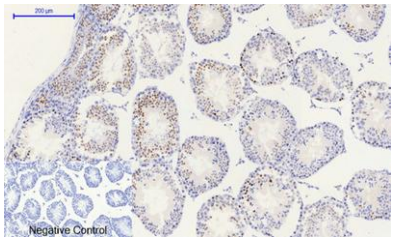


Immunohistochemical analysis of paraffin-embedded Rat-testis tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was



Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,Histone H2A.X (phospho Ser139) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

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