BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Histone H2A.X/H2AFX Antibody

Catalog Number: A00241-4

About H2AX

H2A histone family member X (usually abbreviated as H2AX) is a type of histone protein from the H2A family encoded by the H2AFX gene. 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.

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Overview

Product Name	Anti-Histone H2A.X/H2AFX Antibody
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-Histone H2A.X/H2AFX Antibody catalog # A00241-4. Tested in WB, IHC, ICC, IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat, Monkey.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt□-20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P16104

Technical Details

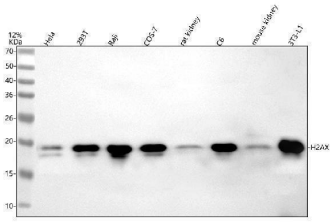
Immunogen	E.coli-derived human Histone H2A.X/H2AFX recombinant protein (Position: S2-S140).

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Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 Immunocytochemistry/Immunofluorescence, 1:50-400 Flow Cytometry (Fixed), 1-3ug/1x10^6 cells ELISA, 1:100-1000

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Anti-Histone H2A.X/H2AFX Antibody (A00241-4) Images



Western blot analysis of Histone H2A.X/H2AFX using anti-Histone H2A.X/H2AFX antibody (A00241-4). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: monkey COS-7 whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse kidney tissue lysates, Lane 8: mouse 3T3-L1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Histone H2A.X/H2AFX antigen affinity purified polyclonal antibody (A00241-4) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Histone H2A.X/H2AFX at approximately 17 kDa. The expected band size for Histone H2A.X/H2AFX is at 15 kDa.

Anti-Histone H2A.X/H2AFX Antibody

For Research Use Only. Not for use in diagnostic procedures.