

Histone H2A.X Polyclonal Antibody

Catalog number: 10856-1-AP

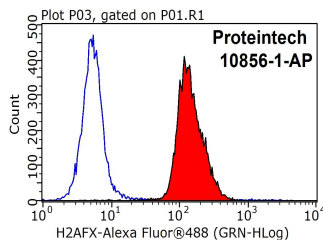
Size: 45 µg/150 µl

Source: Rabbit

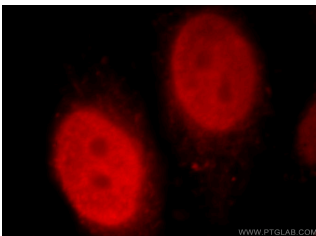
Isotype: IgG

Synonyms:

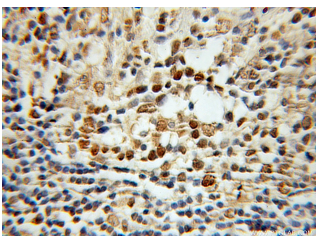
H2AFX; H2A histone family, member X, H2A.X, H2A/X, H2AFX, H2AX, Histone H2A.x



1X10⁶ HepG2 cells were stained with 0.2µg Histone H2A.X antibody (10856-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of HepG2 cells, using H2AFX antibody 10856-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical of paraffin-embedded human lymphoma using 10856-1-AP(H2AFX antibody) at dilution of 1:100 (under 10x lens)

Background

Histone H2A.X belongs to the histone H2A family, which is synthesized in G1 and S phase. It is involved in nucleosomal organization of chromatin together with other histone proteins, and is specially important for recombination between immunoglobulin switch regions. H2A.X becomes phosphorylated on serine 139 (to form gamma-H2AFX or H2AX139ph) in response to DNA double strand breaks (DSBs) generated by exogenous genotoxic agents and by stalled replication forks, which promotes DNA repair and maintains genomic stability.

Applications

Tested applications:	ELISA, WB, IHC, IF, FC
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, rat
Calculated Histone H2A.X MW:	15 kDa
Observed Histone H2A.X MW:	15-18kd
Positive WB detected in	Raji cells, HEK-293 cells, HL-60 cells, mouse heart tissue
Positive IHC detected in	Human lymphoma tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:10-1:100 FC: N/A

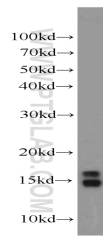
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1305
GenBank accession number:	BC013416
Gene ID (NCBI):	3014
Full name:	H2A histone family, member X

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Raji cells were subjected to SDS PAGE followed by western blot with 10856-1-AP(H2AFX antibody) at dilution of 1:1000