For Research Use Only

Phospho-Histone H2A.X (Ser139) Recombinant antibody, PBS Only

Catalog Number:83307-2-PBS

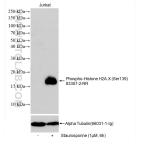


Basic Information	Catalog Number: 83307-2-PBS	GenBank Accession Number: BC013416	Purification Method: Protein A purfication
	Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 3014 UNIPROT ID: P16104 Full Name: H2A histone family, member X Calculated MW: 15 kDa Observed MW: 15 kDa	CloneNo.: 5N19
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), Indirect ELISA Species Specificity: human		
Background Information	The histone variant H2AX is a major component of the DNA damage response (DDR), especially functioning in amplifying DNA damage signals. In response to DNA double-strand breaks (DSBs), H2AX is instantaneously phosphorylated at Ser139 (a form called cH2AX) by the kinases ATM and ATR. The phosphorylation of H2AX at Ser139, resulting in the formation of gamma-H2AX puncta in the nuclei, is an early event in the cellular response to DNA damage. Therefore, phospho-Histone H2A. X (Ser139) is also known as y H2AX. The phosphorylation site of H2AX, Ser139, has also been described as Ser140 in other literature, and they recognize the same amino acid site. (PMID: 22908299, PMID: 30106130, PMID:22941631)		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

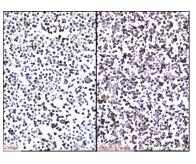
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

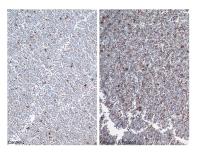
Selected Validation Data



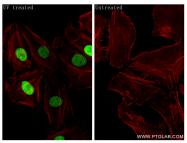
Non-treated Jurkat cells, and staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 83307-2-RR (Phospho-Histone H2A.X (Ser139) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as loading control. This data was developed using the same antibody clone with 83307-2-PBS in a different storage buffer formulation.



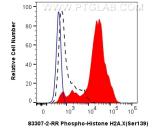
Immunohistochemical analysis of paraffinembedded Jurkat cells slide using 83507-2-RR (Phospho-Histone H2A.X (Ser139) antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83307-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded Jurkat cells slide using 83307-2-RR (Phospho-Histone H2A.X (Ser139) antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83307-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed UV treated HeLa cells using Phospho-Histone H2A.X (Ser139) antibody (83307-2-RR, Clone: 5N19) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA0043-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83307-2-PBS in a different storage buffer formulation.



1x10^6 Jurkat cells untreated (dashed lines) or treated with Staurosporine which intracellularly stained with 0.06 ug Phospho-Histone H2A.X (Ser139) Recombinant antibody (83307-2-RR, Clone:5N19) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG (H+L) (SA00013-