

For Research Use Only

CoraLite®594-conjugated Phospho-Histone H2A.X (Ser139) Recombinant monoclonal antibody

Catalog Number:CL594-83307-2



Basic Information

Catalog Number: CL594-83307-2	GenBank Accession Number: BC013416	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3014	CloneNo.: 5N19
Source: Rabbit	UNIPROT ID: P16104	Recommended Dilutions: FC (Intra): 0.13 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: H2A histone family, member X	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
	Calculated MW: 15 kDa	
	Observed MW: 15 kDa	

Applications

Tested Applications: FC (Intra)	Positive Controls: FC (Intra) : Staurosporine treated Jurkat cells,
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 γH2AX) 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 γ 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)

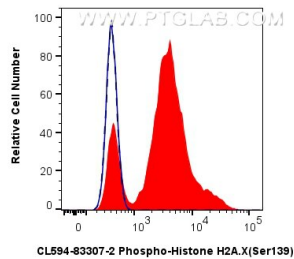
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ Jurkat cells untreated (dashed lines) or treated with Staurosporine which intracellularly stained with 0.13 ug Coralite®594 Phospho-Histone H2a.X (Ser139) Recombinant Antibody (CL594-83307-2, Clone:5N19)(red), or 0.13 ug Coralite®594 Rabbit IgG Isotype Control RecAb (CL594-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).