For Research Use Only

CoraLite® Plus 488-conjugated Phospho-Histone H2A.X (Ser139) Recombinant monoclonal antibody



Catalog Number: CL488-83307-2

Basic Information

Catalog Number: GenBank Accession Number:

CL488-83307-2 BC013416 GeneID (NCBI): 100ul , Concentration: 1000 $\mu g/ml$ by 3014

Nanodrop: **UNIPROT ID:**

Source: P16104 Rabbit Full Name:

Isotype: H2A histone family, member X IgG

Calculated MW: 15 kDa

> Observed MW: 15 kDa

Purification Method:

Protein A purification

CloneNo.: 5N19

Recommended Dilutions:

FC (Intra): 0.13 ug per 10^6 cells in a

100 ul suspension

Excitation/Emission maxima

wavelengths: 493 nm / 522 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra): Staurosporine treated Jurkat cells,

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)

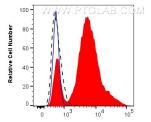
Storage

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



CL488-83307-2 Phospho-Histone H2A.X(Ser139

1x10^6 Jurkat cells untreated (dashed lines) or treated with Staurosporine which intracellularly stained with 0.13 ug Coralite® Plus 488 Phospho-Histone H2a.X (Ser139) Recombinant Antibody (CL488-83307-2, Clone:5N19)(red), or 0.13 ug Coralite® Plus 488 Rabbit IgG Isotype Control RecAb (CL488-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).