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Overview

Quantity:	100 μL
Target:	Histone H3.3
Binding Specificity:	pSer31
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H3.3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Dot Blot (DB)
Product Details	
Immunogen:	This Histone H3.3 phospho Ser31 antibody was raised against a peptide containing phospho Ser31 of Histone H3.3.
Isotype:	IgG
Characteristics:	

to have functional differences to the more typical histones. Histone variant H3.3 is the predominant form of histone H3 in non-dividing cells. Phosphorylation of serine 31 of histone variant H3.3 is specific to regions bordering centromeres in metaphase chromosomes. (Reference: Hake et al. (2005) PNAS 102: 6344-6349.) Histone H3.3S31ph antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot, Immunofluorescence and Western blot, it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.

Purification:

Affinity Purified

Target Details

Target:	Histone H3.3
Abstract:	Histone H3.3 Products
Molecular Weight:	17 kDa
NCBI Accession:	NP_002908

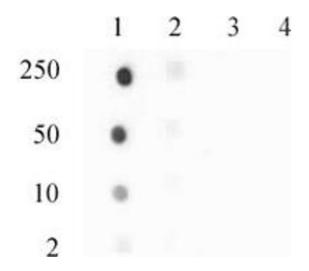
Application Details

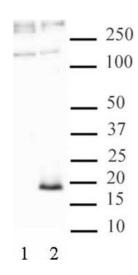
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Buffer:	Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at - 20°C for up to 2 years. Keep all reagents on ice when not in storage.

should be handled by trained staff only.





Dot Blot

Image 1. Histone H3.3 phospho Ser31 antibody tested by Dot blot. Dot blot analysis was used to confirm the specificity of Histone H3.3 phospho Ser31 antibody. Peptides corresponding to histone H3.3 and regions around major sites of histone H3 phosphorylation (serine 10 and serine 28) were spotted onto PVDF and probed with 39637 at a dilution of 1:10,000. The amount of peptide (in picomoles) spotted is indicated next to each row. Lane 1: peptide phosphorylated at serine 31 of H3.3. Lane 2: unmodified serine 31 peptide. Lane 3: peptide phosphorylated at serine 10 of H3. Lane 4: peptide phosphorylated at serine 28 of H3.

Western Blotting

Image 2. Histone H3.3 phospho Ser31 antibody tested by Western blot. Detection of Histone H3.3 by Western blot. The analysis was performed using 40 µg of untreated (lane 1) or cocemid treated (lane 2) HeLa acid extract with a 1:500 dilution of Histone H3.3 phospho Ser31 antibody.