



# Magic™ Anti-Histone H3 (Phospho S10) monoclonal antibody, clone 4I20 [FITC] (CABT- BL4815)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse Anti-H3F3A Monoclonal Antibody
<b>Immunogen</b>	A proprietary immunogen based on a peptide sequence containing phospho-serine corresponding to residue 10 of human histone H3.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	FITC
<b>Applications</b>	WB
<b>Format</b>	Purified
<b>Preservative</b>	None
<b>Storage</b>	Stable for 2 years at from date of receipt.

## BACKGROUND

<b>Introduction</b>	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between
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nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family. [provided by RefSeq, Jul 2008]

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## GENE INFORMATION

Entrez Gene ID	<a href="#">3020</a>
Protein Refseq	<a href="#">NP_002098</a>
UniProt ID	<a href="#">B2R4P9</a>
Chromosome Location	1q42.12
Pathway	Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Amyloids, organism-specific biosystem; Disease, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Gene Expression, organism-specific biosystem; Hemostasis, organism-specific biosystem;

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