

## SATB1 (Marker of Lymph Node Metastasis of CRC) Antibody

Mouse Monoclonal Antibody [Clone PCR-P-SATB1-2C3]

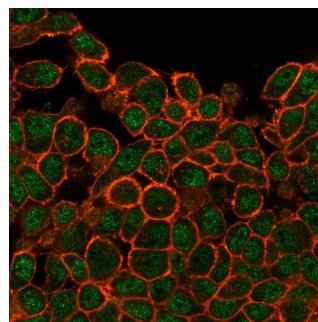
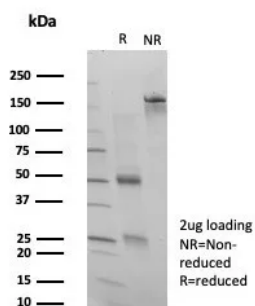
Catalog No	Format	Size
6304-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6304-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6304-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details	
Clone	PCR-P-SATB1-2C3
Gene Name	SATB1
Immunogen	Recombinant full-length human SATB1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG
Mol. Weight of Antigen	115kDa
Cellular Localization	Nucleus.
Species Reactivity	Human
Positive Control	HeLa cells.

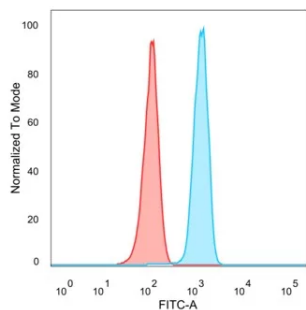
\*Optimal dilution for a specific application should be determined.

### Product Images for SATB1 (Marker of Lymph Node Metastasis of CRC) Antibody



SDS-PAGE Analysis of Purified SATB1 Mouse Monoclonal Antibody (PCR-P-SATB1-2C3). Confirmation of Purity and Integrity of Antibody.

Immunofluorescence Analysis of PFA-fixed HeLa cells stained using SATB1 Mouse Monoclonal Antibody (PCR-P-SATB1-2C3) followed by goat anti-mouse IgG-CF488. Membrane stained with phalloidin.



Flow cytometric analysis of PFA-fixed HeLa cells. SATB1 Mouse Monoclonal Antibody (PCRP-SATB1-2C3) followed by goat anti-mouse IgG-CF488 (blue), unstained cells (red).

### Specificity & Comments

The homeoproteins CCAAT displacement protein (CDP) and special AT-rich sequence binding protein 1 (SATB1) are transcriptional repressors of many cellular genes, and they participate in cell development and cell type differentiation. SATB1 is expressed primarily in thymocytes, and, like CDP, it also contains a distinct homeobox DNA-binding domain that is essential for DNA binding. SATB1 and CDP interact through these homeodomains and synergistically function as mediators of gene expression. SATB1 contains an additional domain that has a higher affinity for DNA and specifically facilitates the direct association between SATB1 and the nuclear matrix attachment regions (MARs) of DNA. MARs are specific DNA sequences that bind to the nuclear matrix and form the base of chromosomal loops that organize the chromosomes and regulate DNA transcription and replication within the nucleus. The association of SATB1 with the core unwinding element within the base-unpairing region of MARs requires both the MAR and homeobox binding domains of SATB1.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.