

## Product datasheet for **CF500578**

### **SATB1 Mouse Monoclonal Antibody [Clone ID: OTI3E12]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3E12
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:50
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human SATB1 (NP_002962) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	85.8 kDa
<b>Gene Name:</b>	SATB homeobox 1
<b>Database Link:</b>	<a href="#">NP_002962</a> <a href="#">Entrez Gene 20230 Mouse</a> <a href="#">Entrez Gene 316164 Rat</a> <a href="#">Entrez Gene 6304 Human</a> <a href="#">Q01826</a>



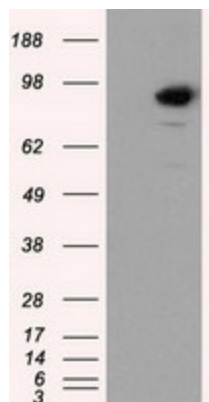
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**Background:** This gene encodes a matrix protein which binds nuclear matrix and scaffold-associating DNAs through a unique nuclear architecture. The protein recruits chromatin-remodeling factors in order to regulate chromatin structure and gene expression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

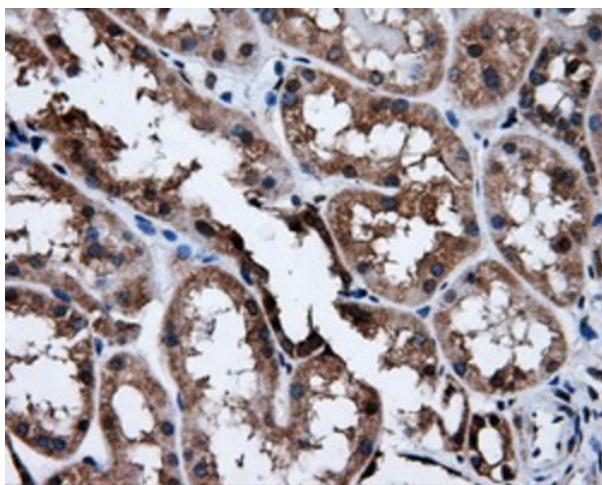
**Synonyms:** DNA-binding protein SATB1; SATB homeobox 1; scaffold-associating DNA's); special AT-rich sequence binding protein 1; special AT-rich sequence binding protein 1 (binds to nuclear matrix

**Protein Families:** Druggable Genome, Transcription Factors

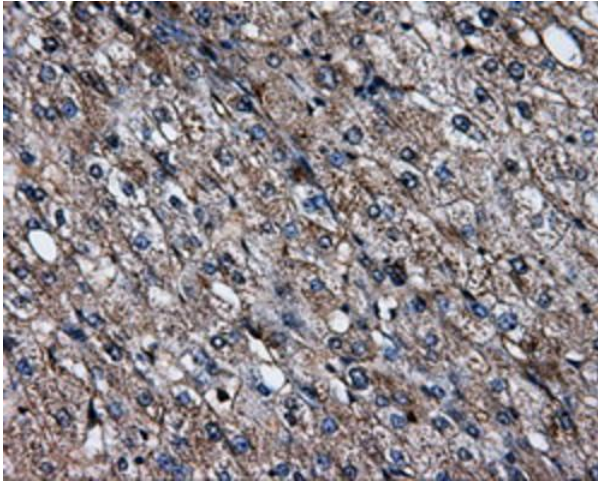
### Product images:



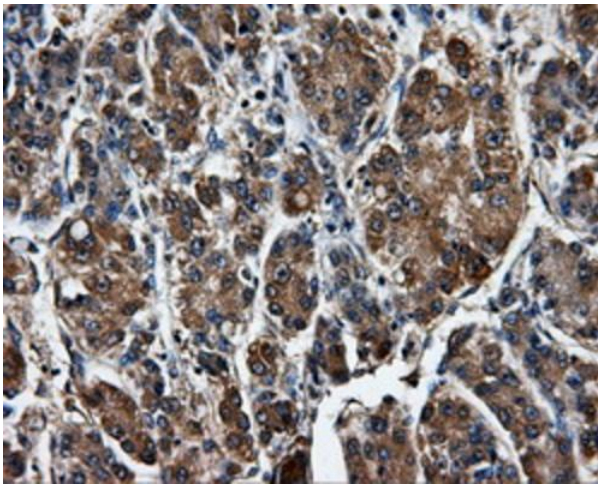
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SATB1 ([RC200421], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SATB1. Positive lysates [LY418976] (100ug) and [LC418976] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-SATB1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500578])



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SATB1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500578])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-SATB1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500578])