

Product datasheet for **CF501951**

SULT1A1 Mouse Monoclonal Antibody [Clone ID: OTI9B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI9B7
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SULT1A1 (NP_001046) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	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)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34.0 kDa
Gene Name:	sulfotransferase family 1A member 1
Database Link:	NP_001046 Entrez Gene 6817 Human P50225



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Background:

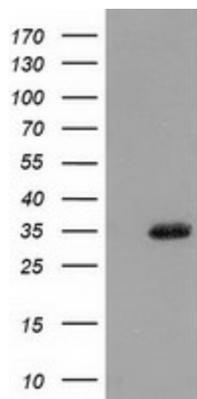
Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene encodes one of two phenol sulfotransferases with thermostable enzyme activity. Multiple alternatively spliced variants that encode two isoforms have been identified for this gene. [provided by RefSeq]

Synonyms:

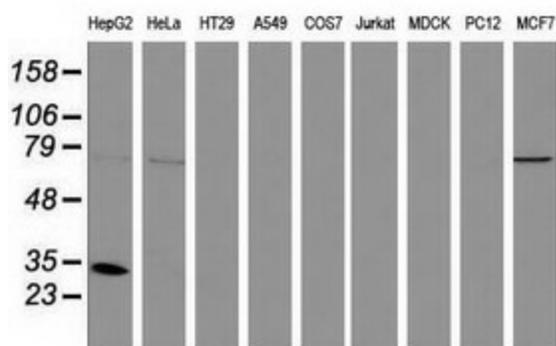
HAST1/HAST2; P-PST; P-PST 1; PST; ST1A1; ST1A3; STP; STP1; ts-PST; TSPST1

Protein Pathways:

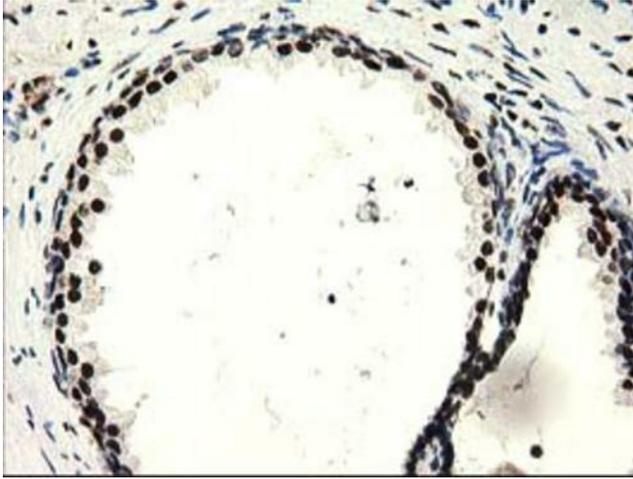
Sulfur metabolism

Product images:


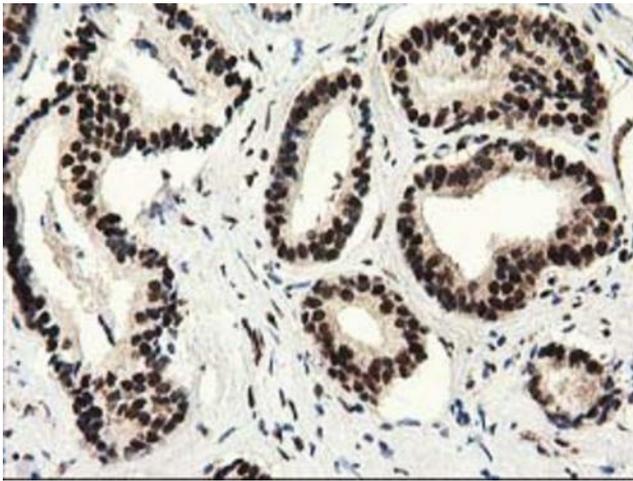
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SULT1A1 (Cat# [RC201601], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SULT1A1 (Cat# [TA501951]). Positive lysates [LY420735] (100ug) and [LC420735] (20ug) can be purchased separately from OriGene.



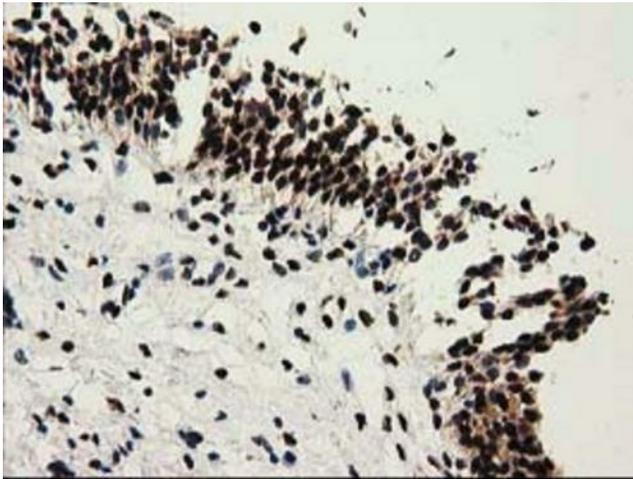
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SULT1A1 monoclonal antibody.



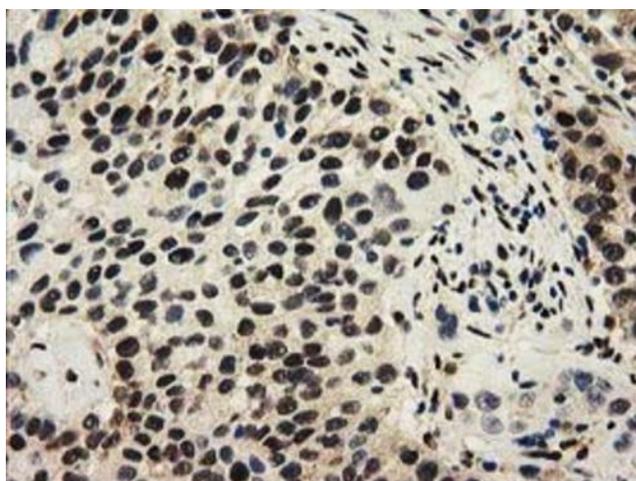
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-SULT1A1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



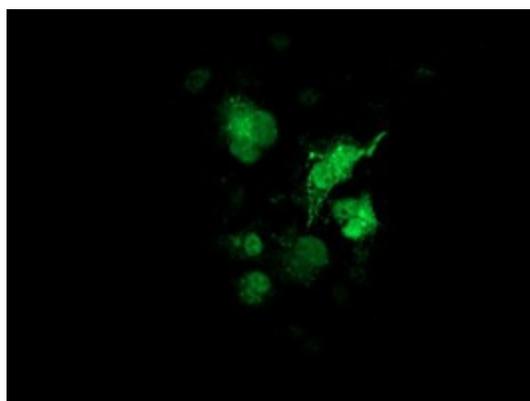
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-SULT1A1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



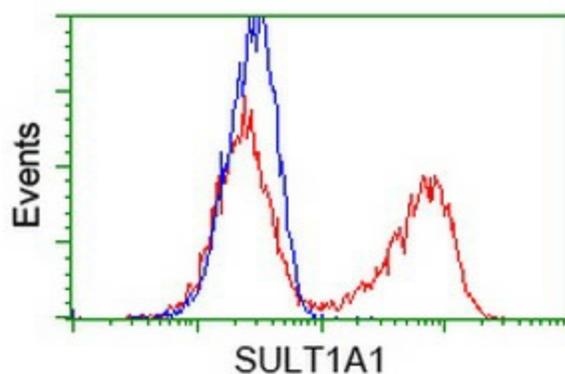
Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-SULT1A1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



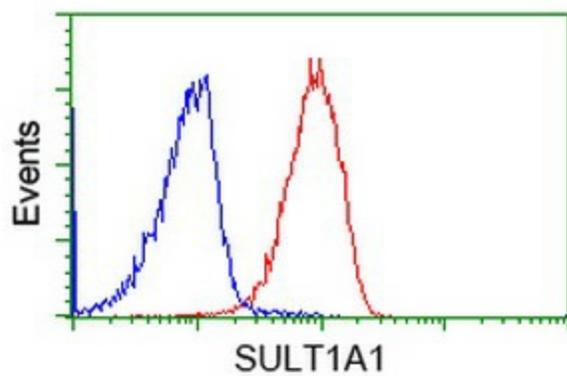
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-SULT1A1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-SULT1A1 mouse monoclonal antibody ([TA501951]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SULT1A1 ([RC201601]).



HEK293T cells transfected with either [RC201601] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SULT1A1 antibody ([TA501951]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-SULT1A1 antibody ([TA501951]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).