

Rabbit anti-Human SULT1C4 Polyclonal Antibody | anti-SULT1C4 antibody

Anti-SULT1C4 Antibody Picoband

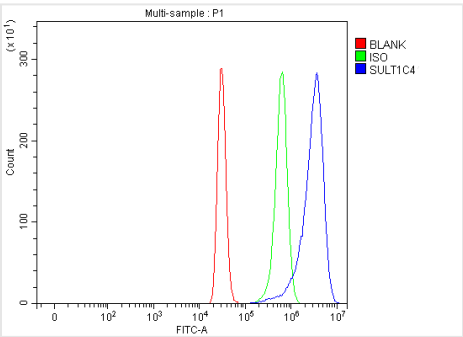
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127666	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

SULT1C4; Polyclonal Antibody; Anti-SULT1C4 Antibody Picoband; Aquaporin-6; NOVA alternative splicing regulator 2; RNA-binding protein Nova-2; Astrocytic NOVA1-like RNA-binding protein; Neuro-oncological ventral antigen 2; NOVA2; ANOVA; NOVA3; anti-SULT1C4 antibody

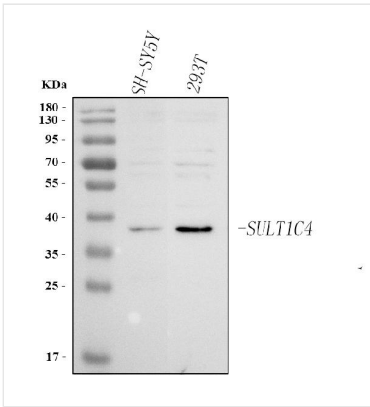
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain. Expression restricted to astrocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SULT1C4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human SULT1C4 recombinant protein (Position: M1-F302).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	May regulate RNA splicing or metabolism in a specific subset of developing neurons. Binds single strand RNA.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-SULT1C4 antibody (AAA127666). Overlay histogram showing HepG2 cells stained with AAA127666 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SULT1C4 Antibody (AAA127666, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SULT1C4 using anti-SULT1C4 antibody (AAA127666). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human 293T whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SULT1C4 antigen affinity purified polyclonal antibody (#AAA127666) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SULT1C4 at approximately 38 kDa. The expected band size for SULT1C4 is at 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SULT1C4 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SULT1C4 antibody	Primary Antibodies; Channels; Metabolism; Plasma Membrane; Signal Transduction
References	1. Freimuth, R. R., Raftogianis, R. B., Wood, T. C., Moon, E., Kim, U.-J., Xu, J., Siciliano, M. J., Weinshilboum, R. M. Human sulfotransferases SULT1C1 and SULT1C2: cDNA characterization, gene cloning, and chromosomal localization. Genomics 65: 157-165, 2000. 2. Sakakibara, Y., Yanagisawa, K., Katafuchi, J., Ringer, D. P., Takami, Y., Nakayama, T., Suiko, M., Liu, M.-C. Molecular cloning, expression, and characterization of novel human SULT1C sulfotransferases that catalyze the sulfonation of N-hydroxy-2-acetylaminofluorene. J. Biol. Chem. 273: 33929-33935, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28830308
NCBI GeneID	27233
NCBI Accession #	NP_006579.2
NCBI GenBank Nucleotide #	NM_006588.2
UniProt Accession #	O75897; Q069I8; Q08AS5; Q53S63
Molecular Weight	26,841 Da
NCBI Official Full Name	sulfotransferase 1C4
NCBI Official Synonym Full Names	sulfotransferase family, cytosolic, 1C, member 4
NCBI Official Symbol	SULT1C4

NCBI Official Synonym Symbols	SULT1C; SULT1C2
NCBI Protein Information	sulfotransferase 1C4; ST1C4; SULT1C#2; sulfotransferase 1C2; sulfotransferase family, cytosolic, 1C, member 2; sulfotransferase family, cytosolic, 1C, member C2
UniProt Protein Name	Sulfotransferase 1C4
UniProt Gene Name	SULT1C4
UniProt Synonym Gene Names	SULT1C2; ST1C4; SULT1C#2
UniProt Entry Name	ST1C4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sult1c4-antibody-flow-cytometry-western-blot-elisa/127666>