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SULT1C2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2608a

Specification

SULT1C2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	O75897
Other Accession	NP_006579

SULT1C2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 27233

Other Names
Sulfotransferase 1C4, ST1C4, 282-, Sulfotransferase 1C2, SULT1C#2, SULT1C4, SULT1C2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2608a was selected from the N-term region of human SULT1C2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SULT1C2 Antibody (N-term) Blocking Peptide - Protein Information

Name SULT1C4 (HGNC:11457)

Function
Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic compounds. Can also sulfonate estrogenic compounds, however, the dietary flavonoids (phytoestrogen) and environmental estrogens, like bisphenol A are better substrates than 17beta-estradiol (E2) (PubMed:17425406, PubMed:26948952, PubMed:28222028, PubMed:9852044). Mediates the sulfation of doxorubicin and its analog epirubicin, two antitumor anthracyclines (PubMed:26948952).

Cellular Location
Cytoplasm, cytosol.

Tissue Location
Expressed at high levels in fetal lung and kidney and at low levels in fetal heart, adult kidney, ovary and spinal cord

SULT1C2 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SULT1C2 Antibody (N-term) Blocking Peptide - Images

SULT1C2 Antibody (N-term) Blocking Peptide - 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. SULT1C2 belongs to the SULT1 subfamily, responsible for transferring a sulfo moiety from PAPS to phenol-containing compounds. SULT1C2 belongs to a SULT subfamily that shows specificity for hydroxyarylamines. SULT1C2 catalyzes the sulfonation of p-nitrophenol and N-hydroxy-2-acetylaminofluorene, but not dopamine.

SULT1C2 Antibody (N-term) Blocking Peptide - References

Mutat. Res. 482 (1-2), 27-40 (2001)Chem. Biol. Interact. 129 (1-2), 141-170 (2000)Genomics 65 (2), 157-165 (2000)J. Biol. Chem. 273 (51), 33929-33935 (1998).FASEB J. 11 (1), 3-14 (1997.