

SLCO3A1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54628

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9UIG8
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76553

Additional Information

Gene ID	28232
Other Names	Solute carrier organic anion transporter family member 3A1, OATP3A1, Organic anion transporter polypeptide-related protein 3, OATP-RP3, OATPRP3, Organic anion-transporting polypeptide D, OATP-D, PGE1 transporter, Sodium-independent organic anion transporter D, Solute carrier family 21 member 11, SLCO3A1, OATP3A1, OATPD, SLC21A11
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLCO3A1
Synonyms	OATP3A1, OATPD, SLC21A11
Function	Putative organic anion antiporter with apparent broad substrate specificity. Recognizes various substrates including thyroid hormone L-thyroxine, prostanoids such as prostaglandin E1 and E2, bile acids such as taurocholate, glycolate and glycochenodeoxycholate and peptide hormones such as L-arginine vasopressin, likely operating in a tissue-specific manner (PubMed: 10873595 , PubMed: 14631946 , PubMed: 16971491 , PubMed: 19129463 , PubMed: 30063921). The transport mechanism, its electrogenicity and potential tissue-specific counterions remain to be elucidated (Probable). Mediates transport of tryptophan, phenylalanine and tyrosine (PubMed: 39206635).
Cellular Location	[Isoform 1]: Basolateral cell membrane; Multi-pass membrane protein.

Note=Localized to the basolateral membrane of choroid plexus epithelium.
[Isoform 5]: Apical cell membrane; Multi-pass membrane protein

Tissue Location

Generally the expression of isoform 1 is higher than that of isoform 2.
[Isoform 2]: Expressed in heart, brain, cerebellum, testis, lung, thyroid, spleen and liver (PubMed:16971491). In testis, primarily localized to the basal membrane of Sertoli cells and weakly expressed within the tubules (PubMed:16971491, PubMed:35307651). In testis, also present in spermatogonia at different stages. In brain, expressed in the choroid plexus epithelium, at the apical membrane as well as in the subapical intracellular vesicular compartments. In brain, also associated with neuronal bodies and axons in both the gray and the white matters of the frontal cortex (PubMed:16971491)

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