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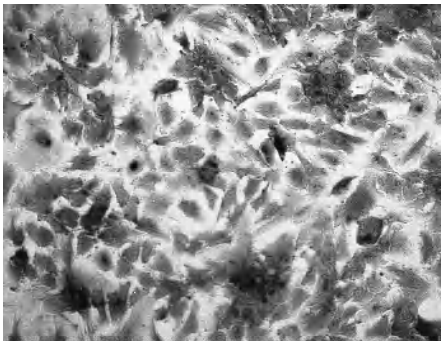
Anti Rat Organic Cation Transporter 3 Polyclonal Antibody

To eliminate the drug, xenobiotics, a varirety of endogeneous substances, and their metabolites out of the body, specific membrane proteins named transporters are required. There are two major pathways for the elimination, one of which is hepatic one through bile, and another is renal one to urine. The transporter falls into various transport systems by the transportative substrate. In particular, oraganic ion transporter family is comprised of organic anion transport family (OAT), oraganic cation transport family (OCT), OCTN/carnitine transport family, and OAT are multispecific organic anion transpoters, the substrates of which include a lot of both endogeneous and exogeneous anions.

Organic Cation Transporter 3（OCT3）is expressed in kidney, placenta and brain. In brain, OCT3 is suggested that it is involved in monoamine regulation mechanism and plays a significant role in the disposition of cationic neurotoxins.

This antibody was established from the purified serum immunized with partial peptide of rat OCT3. This antibody is useful for Immnohistochemistry.

Package Size	25 µg（100 µL/vial）
Format	Rabbit polyclonal antibody 0.25mg/mL
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage	Below –20℃
Purification method	This antibody was purified from rabbit serum by affinity chromatography.
Working dilution	For Immunohistochemistry ; 1～5 µg/mL



Immunohistochemistry

Sample ： rat brain astrocyte

Preparation of antibodies and instruction ：
Drs. Takeda H. and Inazu M. at Department of Pharmacology, Tokyo Medical University

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【Reference】

1. Kekuda R. et al. : J Biol Chem. 1998 Jun 26;273(26):15971-9
2. Wu X. et al. : J Biol Chem. 1998 Dec 4;273(49):32776-86
3. Wu X. et al. : Am J Physiol Renal Physiol. 2000 Sep;279(3):F449-58
4. Inui KI. et al. : Kidney Int. 2000 Sep;58(3): 944-58
5. Inazu M. et al. : J Neurochem. 2003 Jan;84(1):43-52
6. Kitaichi K. et al.: Neurosci Lett. 2005 Jul 1-8;382(1-2):195-200.*

*It is the documents which used this antibody

Supplier

SCETI K.K.

3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013, JAPAN

Tel +81(3) 5510-2347 Fax +81(3) 5510-0133

URL: http://www.sceti.jp/export/ e-mail: exp-pet@sceti.co.jp