



Code No.KAL-KR071-EX

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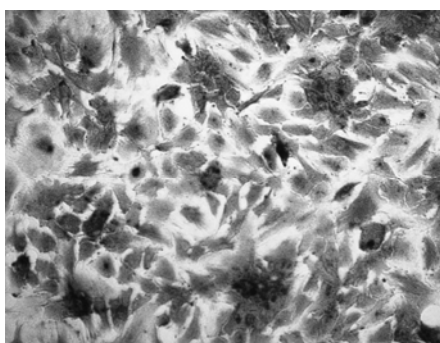
Anti Rat Organic Cation Transporter 3 Polyclonal Antibody, Rabbit

To eliminate the drug, xenobiotics, a variety of endogenous 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 fall into various transport systems by the transportative substrate. In particular, organic ion transporter family is comprised of organic anion transport family (OAT), organic cation transport family (OCT), OCTN/carnitine transport family, and OAT are multispecific organic anion transporters, the substrates of which include a lot of both endogenous and exogenous 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 Immunohistochemistry.

Package Size	25 µg (100 µL/vial)
Format	Rabbit polyclonal antibody 0.25mg/mL
Buffer	PBS [containing 50% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage	Below -20°C
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】

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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

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