

Product name:	ORCTL2 Rabbit Polyclonal Antibody
Cat number:	ABN15501
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human ORCTL-2. AA range:359-408
Reactivity:	Human,Rat,Mouse
Applications:	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight:	43kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

This gene is one of several tumor-suppressing subtransferable fragments located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene is imprinted, with preferential expression from the maternal allele. Mutations in this gene have been found in Wilms' tumor and lung cancer. This protein may act as a transporter of organic cations, and have a role in the transport of chloroquine and quinidine-related compounds in kidney. Several alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Oct 2015],caution:It is uncertain whether Met-1 or Met-17 is the initiator.,disease:Defects in SLC22A18 are associated with breast cancer [MIM:114480].,disease:Defects in SLC22A18 are associated with lung cancer [MIM:211980].,disease:Defects in SLC22A18 are the cause of rhabdomyosarcoma type 1 (RMS1) [MIM:268210]. Rhabdomyosarcoma is a malignant tumor (sarcoma) derived from striated muscle.,function:May act as a transporter of organic cations based on a proton efflux antiport mechanism. May play a role in the transport of chloroquine and quinidine-related compounds in kidney.,similarity:Belongs to the major facilitator superfamily. Organic cation transporter family.,subcellular location:Localized at the apical membrane surface of renal proximal tubules.,subunit:Interacts with RNF167.,tissue specificity:Expressed at high levels in adult and fetal kidney and liver, and adult colon. Expressed in fetal renal proximal tubules (at protein level). Expressed at lower levels in heart, brain and lung.,