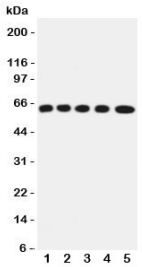
OCTN2 Antibody (SLC22A5) (R31295)

Catalog No.	Formulation	Size
R31295	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9Z0E8
Applications	Western blot: 0.5-1ug/ml
Limitations	This OCTN2 antibody is available for research use only.



Western blot testing of OCTN2 antibody and Lane 1: rat kidney; 2: (r) skeletal muscles; 3: mouse liver; 4: (m) HEPA; 5: (m) NIH3T3 cell lysate. Expected/observed size ~63KD

Description

Solute carrier family 22 (organic cation/carnitine transporter) member 5, also called SLC22A5 or OCTN2 is a membrane transport protein associated with primary carnitine deficiency. This gene is mapped to 5q31.1. Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. The encoded protein is a plasma integral membrane protein which functions both as an organic cation transporter and as a sodium-dependent high affinity carnitine transporter. The encoded protein is involved in the active cellular uptake of carnitine. Mutations in this gene are the cause of systemic primary carnitine deficiency(CDSP), an autosomal recessive disorder manifested early in life by hypoketotic

hypoglycemia and acute metabolic decompensation, and later in life by skeletal myopathy or cardiomyopathy.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the OCTN2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of mouse SLC22A5/OCTN2 (KQWQIQSQTRMQKDGEE) was used as the immunogen for this OCTN2 antibody.

Storage

After reconstitution, the OCTN2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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