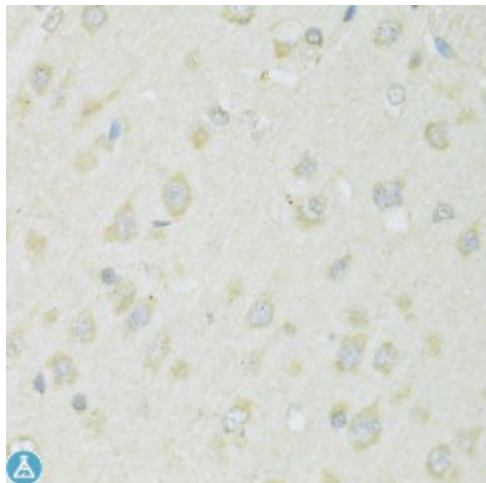


Anti-SLC22A5 Antibody



Description

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. Alternative splicing of this gene results in multiple transcript variants.

Model	STJ116985
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IHC, WB
Immunogen	Recombinant protein of human SLC22A5
Gene ID	6584
Gene Symbol	SLC22A5
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Tissue Specificity	Strongly expressed in kidney, skeletal muscle, heart and placenta, Highly expressed in intestinal cell types affected by Crohn disease, including epithelial cells, Expressed in CD68 macrophage and CD43 T-cells but not in

	CD20 B-cells
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Solute carrier family 22 member 5 High-affinity sodium-dependent carnitine cotransporter Organic cation/carnitine transporter 2
Molecular Weight	62.752 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:10969OMIM:212140Reactome:R-HSA-200425
Alternative Names	Solute carrier family 22 member 5 High-affinity sodium-dependent carnitine cotransporter Organic cation/carnitine transporter 2
Function	Sodium-ion dependent, high affinity carnitine transporter, Involved in the active cellular uptake of carnitine, Transports one sodium ion with one molecule of carnitine, Also transports organic cations such as tetraethylammonium (TEA) without the involvement of sodium, Also relative uptake activity ratio of carnitine to TEA is 11,3,
Cellular Localization	Membrane