

产品名称: OCTN2 Rabbit Polyclonal Antibody
产品货号: APRab15106



产品概述 (Summary)

产品名称 (Production Name)	OCTN2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SLC22A5
别名 (Alternative Names)	SLC22A5; OCTN2; Solute carrier family 22 member 5; High-affinity sodium-dependent carnitine cotransporter; Organic cation/carnitine transporter 2
基因 ID (Gene ID)	6584.0
蛋白 ID (SwissProt ID)	O76082.The antiserum was produced against synthesized peptide derived from human SLC22A5. AA range:300-349

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	65kDa

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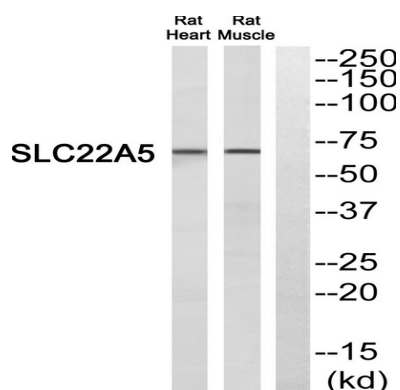
研究背景 (Background)

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. [provided by RefSeq, Apr 2015],disease:Defects in SLC22A5 are the cause of systemic primary carnitine deficiency (CDSP) [MIM:212140]. CDSP is an autosomal recessive disorder of fatty acid oxidation caused by defective carnitine transport. Present early in life with hypoketotic hypoglycemia and acute metabolic decompensation, or later in life with skeletal myopathy or cardiomyopathy.,disease:Defects in SLC22A5 may be a cause of susceptibility to Crohn disease (CD) [MIM:266600]. CD is a form of remitting inflammatory bowel disease (IBD). CD may involve any part of the gastrointestinal tract, but most frequently the terminal ileum and colon. Bowel inflammation is transmural and discontinuous. CD is commonly classified as an autoimmune disease.,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.,miscellaneous:Inhibited by emetine, quinidine and verapamil. The IC(50) of emetine is 4.2 uM. Not inhibited by valproic acid.,similarity:Belongs to the major facilitator superfamily. Organic cation transporter family.,subunit:Interacts with PDZK1.,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.,

研究领域 (Research Area)

Signal Transduction; Metabolism; Plasma Membrane; Channels

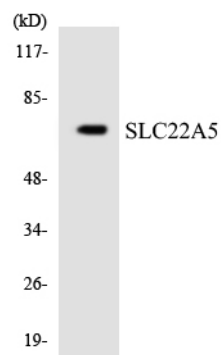
图片 (Image Data)



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Western blot analysis of SLC22A5 Antibody. The lane on the right is blocked with the SLC22A5 peptide.



Western blot analysis of the lysates from HeLa cells using SLC22A5 antibody.

注意事项 (Note)

For research use only .