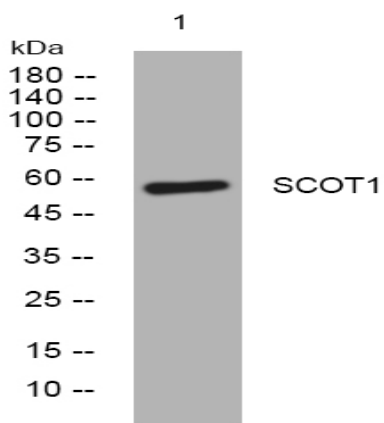


SCOT1 rabbit pAb

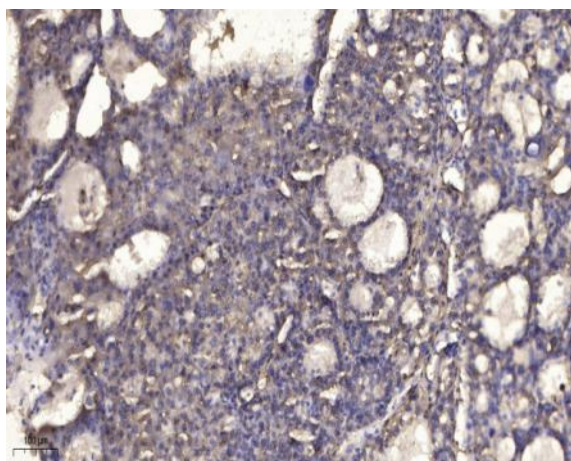
Catalog No :	YT7283
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	SCOT1
Fields :	>>Valine, leucine and isoleucine degradation;>>Butanoate metabolism;>>Metabolic pathways
Gene Name :	OXCT1 OXCT SCOT
Protein Name :	SCOT1
Human Gene Id :	5019
Human Swiss Prot No :	P55809
Mouse Gene Id :	67041
Mouse Swiss Prot No :	Q9D0K2
Rat Gene Id :	690163
Rat Swiss Prot No :	B2GV06
Immunogen :	Synthesized peptide derived from human SCOT1 AA range: 105-155
Specificity :	This antibody detects endogenous levels of SCOT1 at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	57kD
Background :	This gene encodes a member of the 3-oxoacid CoA-transferase gene family. The encoded protein is a homodimeric mitochondrial matrix enzyme that plays a central role in extrahepatic ketone body catabolism by catalyzing the reversible transfer of coenzyme A from succinyl-CoA to acetoacetate. Mutations in this gene are associated with succinyl CoA:3-oxoacid CoA transferase deficiency. [provided by RefSeq, Jul 2008],
Function :	catalytic activity:Succinyl-CoA + a 3-oxo acid = succinate + a 3-oxoacyl-CoA.,disease:Defects in OXCT1 are a cause of ketoacidosis [MIM:245050].,function:Key enzyme for ketone body catabolism. Transfers the CoA moiety from succinate to acetoacetate. Formation of the enzyme-CoA intermediate proceeds via an unstable anhydride species formed between the carboxylate groups of the enzyme and substrate.,pathway:Ketone metabolism; succinyl-CoA degradation; acetoacetyl-CoA from succinyl-CoA: step 1/1.,similarity:Belongs to the 3-oxoacid CoA-transferase family.,subunit:Homodimer.,tissue specificity:Abundant in heart, followed in order by kidney, brain, and muscle, whereas in liver it is undetectable; also detectable in leukocytes and fibroblasts.,
Subcellular Location :	Mitochondrion .
Expression :	Abundant in heart, followed in order by brain, kidney, skeletal muscle, and lung, whereas in liver it is undetectable. Expressed (at protein level) in all tissues (except in liver), most abundant in myocardium, then brain, kidney, adrenal glands, skeletal muscle and lung; also detectable in leukocytes and fibroblasts.

Products Images



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4° over night



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).