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Rabbit Anti-Glycerol kinase/Cy5 Conjugated antibody

SL4062R-Cy5

Product Name	Anti-Glycerol kinase/Cy5
Chinese Name	Cy5 标记的甘油激酶抗体
Alias	ATP glycerol 3 phosphotransferase; GK; GK1; GKD; Glycerokinase; Glycerol kinase; Glycerol kinase deficiency; ATP:glycerol 3-phosphotransferase; GLPK_HUMAN.
Research Area	Tumour Cell biology immunology transcriptional regulatory factor Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Pig,Cow,Horse,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	61kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Glycerol kinase
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Glycerol kinase catalyzes the formation of glycerol 3 phosphate from ATP and glycerol. Dihydroxyacetone and L glyceraldehyde can also act as acceptors; UTP and, in the case of the yeast enzyme, ITP and GTP can act as donors. It

provides a way for glycerol derived from fats or glycerides to enter the glycolytic pathway.

Function:
Key enzyme in the regulation of glycerol uptake and metabolism.

Subcellular Location:
Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Note=In sperm and fetal tissues, the majority of the enzyme is bound to mitochondria, but in adult tissues, such as liver found in the cytoplasm.

Tissue Specificity:
Highly expressed in the liver, kidney and testis. Isoform 2 and isoform 3 are expressed specifically in testis and fetal liver, but not in the adult liver.

DISEASE:
Defects in GK are the cause of GK deficiency (GKD) [MIM:307030]. This disease can be either symptomatic with episodic metabolic and CNS decompensation or asymptomatic with hyperglycerolemia and hyperglyceroluria only.

Similarity:
Belongs to the FGGY kinase family.

Database links:

Entrez Gene: 2710 Human

Entrez Gene: 14933 Mouse

Entrez Gene: 79223 Rat

Omim: 300474 Human

SwissProt: P32189 Human

SwissProt: Q64516 Mouse

SwissProt: Q63060 Rat

Unigene: 1466 Human

Unigene: 246682 Mouse

Unigene: 225941 Rat

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Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.