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SLC19A2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54304

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O60779
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55400
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC19A2
Epitope Specificity	21-120/497
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
SIMILARITY	Belongs to the reduced folate carrier (RFC) transporter (TC 2.A.48) family.
DISEASE	Defects in SLC19A2 are the cause of thiamine-responsive megaloblastic anemia syndrome (TRMA) [MIM:249270]; also known as Rogers syndrome. TRMA is an autosomal recessive disease with features that include megaloblastic anemia, mild thrombocytopenia and leucopenia, sensorineural deafness and diabetes mellitus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes the thiamin transporter protein. Mutations in this gene cause thiamin-responsive megaloblastic anemia syndrome (TRMA), which is an autosomal recessive disorder characterized by diabetes mellitus, megaloblastic anemia and sensorineural deafness. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	10560
Other Names	Thiamine transporter 1, ThTr-1, ThTr1, Solute carrier family 19 member 2, Thiamine carrier 1, TC1, SLC19A2, THT1, TRMA
Target/Specificity	Ubiquitous; most abundant in skeletal and cardiac muscle. Medium expression in placenta, heart, liver and kidney, low in lung.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC19A2
Synonyms	THT1, TRMA
Function	High-affinity transporter for the intake of thiamine (PubMed: 10391222, PubMed:10542220, PubMed:21836059, PubMed:33008889, PubMed:35512554, PubMed:35724964). Mediates H(+)-dependent pyridoxine transport (PubMed:33008889, PubMed:35512554, PubMed:35724964).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous; most abundant in skeletal and cardiac muscle. Medium expression in placenta, heart, liver and kidney, low in lung.