SLC25A4 Antibody

Catalog No: #32484

Package Size: #32484-1 50ul #32484-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

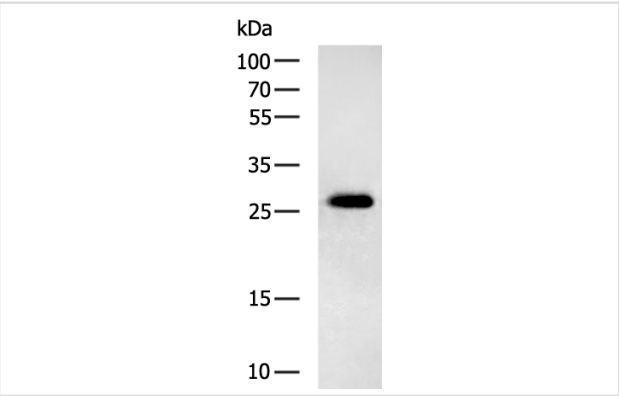
Description

Product Name	SLC25A4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB;IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total SLC25A4 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Synthetic peptide of human SLC25A4
Conjugates	Unconjugated
Target Name	SLC25A4
Other Names	SLC25A4;AAC1;ANT;ANT 1;ANT1;MTDPS12;MTDPS12A;PEO2;PEO3;PEOA2;T1
Accession No.	Uniprot:P12235GeneID:291
SDS-PAGE MW	33KDa
Concentration	1.0mg/ml
Formulation	pH7.4 PBS, 0.05% NaN3, 40% Glycerol
Storage	Store at -20°C. Avoid freeze / thaw cycles.

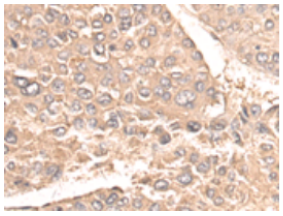
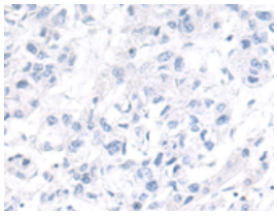
Application Details

WB 1:1000-1:5000; IHC 1:50-1:200;

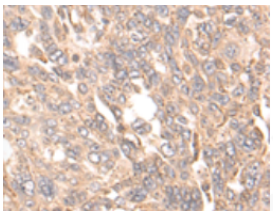
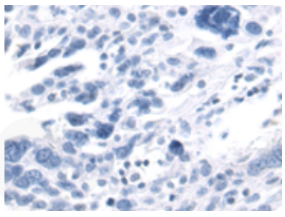
Images



Gel: 12%SDS-PAGE Lysate: 40 ug Lane: Mouse heart tissue lysate Primary antibody: (SLC25A4 Antibody) at dilution 1/800 Secondary antibody: (HRP-conjugated Goat anti rabbit IgG) at 1/5000 dilution Exposure time: 10 seconds

The image on the left is immunohistochemistry of paraffinembedded Human liver cancer tissue using (SLC25A4 Antibody) at dilution 1/50, on the right is treated with synthetic peptide. (Original magnification: 200)

The image on the left is immunohistochemistry of paraffinembedded Human breast cancer tissue using (SLC25A4 Antibody) at dilution 1/50, on the right is treated with synthetic peptide. (Original magnification: 200)

Background

This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external opthalmoplegia and familial hypertrophic cardiomyopathy.

Published Papers

el at., Inhibition of mitochondrial permeability transition by deletion of the ANT family and CypD. In Sci Adv on 2019 Aug 28 by Karch J, Bround MJ, et al..PMID:31489369, , (2019)

PMID:31489369

el at., ATP synthase C-subunit-deficient mitochondria have a small cyclosporine A-sensitive channel, but lack the permeability transition pore. In Cell Rep on 2019 Jan 2 by Maria A Neginskaya, Maria E Solesio, et al..PMID: 30605668, , (2019)

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el at., A mitochondrial megachannel resides in monomeric F 1 FO ATP synthase. In Nat Commun on 2019 Dec 20 by Nelli Mnatsakanyan, Marc C Llaguno,et al..PMID: 31862883

, , (2019)

PMID:31862883

el at., ANT-dependent MPTP underlies necrotic myofiber death in muscular dystrophyInSci AdvOn2023 Aug 25byMichael J Bround?1,?Julian R Havens et al..PMID: 37624892, , (2023)

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Patel Pooja;Mendoza Arielys;Ramirez Daniel;Robichaux Dexter;Molkentin Jeffery D.;Karch Jason el at., The adenine nucleotide translocase family underlies cardiac ischemia-reperfusion injury through the mitochondrial permeability pore independently of cyclophilin D, , (2024)

PMID:

Wang Xiang;Shen Gan;Yang Yihong;Jiang Chuan;Ruan Tiechao;Yang Xue;Zhuo Liangchai;Zhang Yingteng;Ou Yangdi;Zhao Xinya;Long

Shunhua;Tang Xiangrong;Lin Tingting;Shen Ying el at., DNAH3 deficiency causes flagellar inner dynein arm loss and male infertility in humans and mice, , (2024)
PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.