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TXTP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5489C

Specification

TXTP Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P53007
Other Accession	NP_005975.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**142-170**

TXTP Antibody (Center) - Additional Information

Gene ID 6576

Other Names
Tricarboxylate transport protein, mitochondrial, Citrate transport protein, CTP, Solute carrier family 25 member 1, Tricarboxylate carrier protein, SLC25A1, SLC20A3

Target/Specificity
This TXTP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 142-170 amino acids from the Central region of human TXTP.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TXTP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TXTP Antibody (Center) - Protein Information

Name SLC25A1

Synonyms SLC20A3

Function Mitochondrial electroneutral antiporter that exports citrate from the mitochondria into the cytosol in exchange for malate (PubMed:29031613, PubMed:29238895). Also able to mediate the exchange of citrate for isocitrate, phosphoenolpyruvate, cis-aconitate and to a lesser extend cis-aconitate, maleate and succinate (PubMed:29031613). In the cytoplasm citrate is important in the regulation of glycolysis through a feedback mechanism and in the production of acetyl-CoA which is needed for the synthesis of fatty acids, sterols, prostaglandins, dolichol and coenzyme Q (CoQ). Required for proper neuromuscular junction formation (Probable).

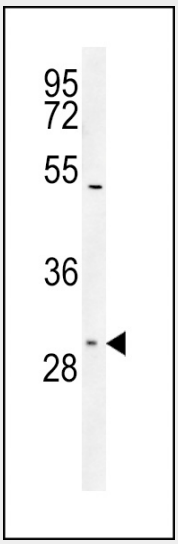
Cellular Location
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q8JZU2}; Multi-pass membrane protein

TXTP Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

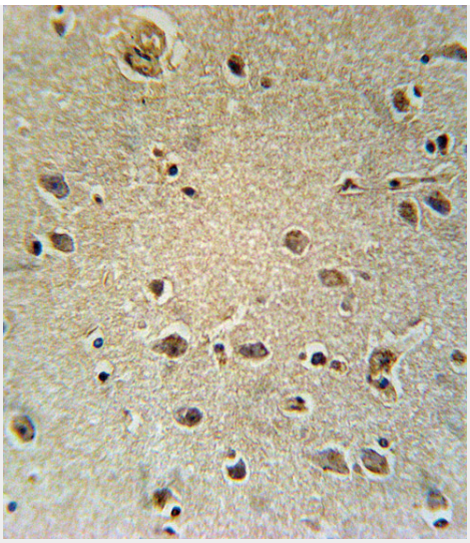
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TXTP Antibody (Center) - Images

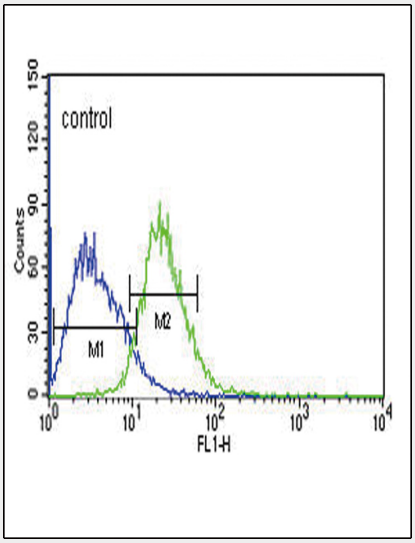


TXTP Antibody (Center) (Cat.#AP5489c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the TXTP antibody detected the TXTP protein (arrow).

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TXTP Antibody (Center) (Cat. #AP5489c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TXTP Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



TXTP Antibody (Center) (Cat. #AP5489c) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TXTP Antibody (Center) - Background

Citrate transport protein (CTP) is involved in citrate-H(+)/malate exchange and is important for the bioenergetics of hepatic cells as it provides a carbon source for fatty acid and sterol biosyntheses, and NAD+ for the glycolytic pathway.

TXTP Antibody (Center) - References

Morciano, P., et al. Hum. Mol. Genet. 18(21):4180-4188(2009)
Iacobazzi, V., et al. Biochem. Biophys. Res. Commun. 386(1):186-191(2009)
Trynka, G., et al. Gut 58(8):1078-1083(2009)