

SRAC1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10801b**Specification**

SRAC1 Antibody (C-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	O96JX3
Other Accession	Q3U213 , Q2TBM9 , NP_116250.2
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	74147
Antigen Region	552-581

SRAC1 Antibody (C-term) - Additional Information**Gene ID** 84947**Other Names**

Protein SERAC1, Serine active site-containing protein 1, SERAC1

Target/Specificity

This SRAC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 552-581 amino acids from the C-terminal region of human SRAC1.

Dilution

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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

SRAC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SRAC1 Antibody (C-term) - Protein Information**Name** SERAC1

Function Facilitates the transport of serine from the cytosol to the mitochondria by interacting with and stabilizing Sideroflexin-1 (SFXN1), a mitochondrial serine transporter, playing a fundamental role in the one-carbon cycle responsible for the synthesis of nucleotides needed for mitochondrial DNA replication (PubMed:[35235340](#)). Plays an important role in the phosphatidylglycerol (PG) remodeling that is essential for both mitochondrial function and intracellular cholesterol trafficking (PubMed:[22683713](#)). Specifically involved in the exchange of the sn-1 acyl chain from PG 16:0/18:1(9Z) (also known as 1-hexadecanoyl-2-(9Z-octadecenoyl)-sn-glycero-3-phospho-(1'-sn-glycerol)) to PG 18:0/18:1(9Z) (also known as 1-octadecanoyl-2-(9Z-octadecenoyl)-sn-glycero-3-phospho-(1'-sn-glycerol)), a step needed in the bis(monoacylglycerol)phosphate biosynthetic pathway (PubMed:[22683713](#)). May have acyltransferase activity although the mechanism for PG remodeling has not been determined (PubMed:[22683713](#)).

Cellular Location

Mitochondrion membrane {ECO:0000250|UniProtKB:Q3U213}; Single-pass membrane protein. Endoplasmic reticulum Mitochondrion. Note=Localizes at the endoplasmic reticulum and at the endoplasmic reticulum-mitochondria interface.

Tissue Location

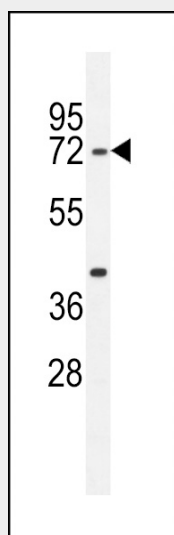
Widely expressed, with predominant expression in skeletal muscle and brain (PubMed:22683713, PubMed:35235340). In the brain, highest levels are found in the frontal and occipital cortices, cerebellum and hippocampus (PubMed:22683713)

SRAC1 Antibody (C-term) - Protocols

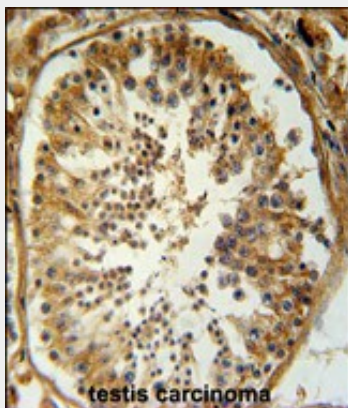
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SRAC1 Antibody (C-term) - Images



SRAC1 Antibody (C-term) (Cat. #AP10801b) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the SRAC1 antibody detected the SRAC1 protein (arrow).



SRAC1 Antibody (C-term) (Cat. #AP10801b) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SRAC1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SRAC1 Antibody (C-term) - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Mungall, A.J., et al. Nature 425(6960):805-811(2003)