Product Name: **SACS Rabbit Polyclonal Antibody**
Catalog #: **APRab17571**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	IHC 1:50-1:300,ICC/IF 1:50-1:200
Molecular Weight	503kDa

Antigen Information

Gene Name	SACS
Alternative Names	KIAA0730
Gene ID	26278.0
SwissProt ID	Q9NZJ4
Immunogen	Synthesized peptide derived from human protein . at AA range: 4291-4340

Background

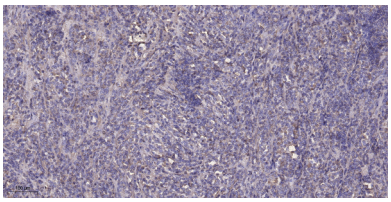
This gene encodes the sacsin protein, which includes a UbL domain at the N-terminus, a DnaJ domain, and a HEPN domain at the C-terminus. The gene is highly expressed in the central nervous system, also found in skin, skeletal muscles and at low levels in the pancreas. This gene includes a very large exon spanning more than 12.8 kb. Mutations in this gene result in autosomal

recessive spastic ataxia of Charlevoix-Saguenay (ARSACS), a neurodegenerative disorder characterized by early-onset cerebellar ataxia with spasticity and peripheral neuropathy. The authors of a publication on the effects of siRNA-mediated sacsin knockdown concluded that sacsin protects against mutant ataxin-1 and suggest that "the large multi-domain sacsin protein is able to recruit Hsp70 chaperone action and has the potential to regulate the effects of other ataxia proteins" (Parfitt et al., PubMed: 19208651).disease:Defects in SACS are the cause of autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS) [MIM:270550]. ARSACS is an early onset neurodegenerative disease with high prevalence in the Charlevoix-Saguenay-Lac-Saint-Jean region of Quebec. It is characterized by absent sensory-nerve conduction, reduced motor-nerve velocity and hypermyelination of retinal-nerve fibers.,function:May function in chaperone-mediated protein folding.,similarity:Contains 1 HEPN domain.,similarity:Contains 1 J domain.,tissue specificity:Highly expressed in the central nervous system. Also found in skeletal muscle and at low levels in pancreas.,

Research Area

Epigenetics and Nuclear Signaling; Transcription; Domain Families; HLH / Leucine Zipper; Leucine Zipper; Signal Transduction; Protein Trafficking; Chaperones; Other Chaperones; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial markers

Image Data



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200（4° overnight）. 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 45min）.