10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

C20orf117 Rabbit pAb

C20orf117 Rabbit pAb
Catalog # AP55790

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O94964
Reactivity	Mouse
Predicted	Human, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	183858
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C20orf117
Epitope Specificity	21-120/1423
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	C-terminal 80 kDa form: Secreted (By similarity). Note=Secreted in primary hepatocyte-conditioned media (By similarity).
SIMILARITY	Belongs to the SOGA family.
SUBUNIT	The C-terminal 25 kDa form occurs as a monomer (By similarity).
Post-translational modifications	Proteolytically cleaved in primary hepatocytes into a C-terminal 80 kDa form (By similarity). Proteolytically cleaved into a C-terminal SOGA 25 kDa form that is detected in plasma.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis, which are thought important for seminal production, and some viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20. The C20orf117 gene product has been provisionally designated C20orf117 pending further characterization.

Additional Information

Gene ID	140710
Other Names	Microtubule cross-linking factor 2, SOGA family member 1, Suppressor of glucose by autophagy, Suppressor of glucose, autophagy-associated protein 1, N-terminal form, C-terminal 80 kDa form, 80-kDa SOGA fragment, MTCL2 (HGNC:16111)

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

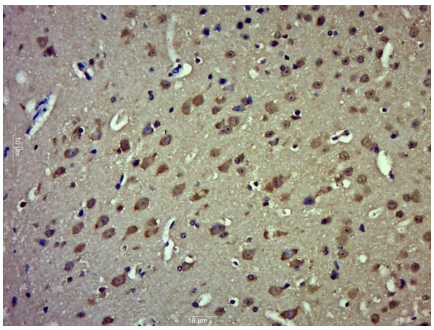
Protein Information

Name	MTCL2 (HGNC:16111)
Function	Microtubule-associated factor that enables integration of the centrosomal and Golgi-associated microtubules on the Golgi membrane, supporting directional migration. Preferentially acts on the perinuclear microtubules accumulated around the Golgi. Associates with the Golgi membrane through the N-terminal coiled-coil region and directly binds microtubules through the C-terminal domain (By similarity). Required for faithful chromosome segregation during mitosis (PubMed:33587225). Regulates autophagy by playing a role in the reduction of glucose production in an adiponectin- and insulin- dependent manner (By similarity).
Cellular Location	Cytoplasm, cytoskeleton. Golgi apparatus membrane {ECO:0000250|UniProtKB:E1U8D0}. Midbody Note=Associates with microtubules during late mitosis and interphase

Background

Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis, which are thought important for seminal production, and some viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20. The C20orf117 gene product has been provisionally designated C20orf117 pending further characterization.

Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C20orf117) Polyclonal Antibody, Unconjugated (AP55790) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.