

C6orf57 Rabbit pAb

C6orf57 Rabbit pAb

Catalog # AP55899

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5VUM1
Predicted	Rat, Pig, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12213
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C6orf57
Epitope Specificity	41-108/108
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	Secreted (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatibility complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6. The C6orf57 gene product has been provisionally designated C6orf57 pending further characterization.

Additional Information

Gene ID	135154
Other Names	Succinate dehydrogenase assembly factor 4, mitochondrial {ECO:0000303 PubMed:24954416, ECO:0000312 HGNC:HGNC:20957}, SDH assembly factor 4, SDHAF4, SDHAF4 {ECO:0000303 PubMed:24954416, ECO:0000312 HGNC:HGNC:20957}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	SDHAF4 {ECO:0000303 PubMed:24954416, ECO:0000312 HGNC:HGNC:20957}
Function	Plays an essential role in the assembly of succinate dehydrogenase (SDH), an enzyme complex (also referred to as respiratory complex II) that is a component of both the tricarboxylic acid (TCA) cycle and the mitochondrial electron transport chain, and which couples the oxidation of succinate to fumarate with the reduction of ubiquinone (coenzyme Q) to ubiquinol (PubMed: 24954416). Binds to the flavoprotein subunit SDHA in its FAD-bound form, blocking the generation of excess reactive oxygen species (ROS) and facilitating its assembly with the iron-sulfur protein subunit SDHB into the SDH catalytic dimer (By similarity).
Cellular Location	Mitochondrion matrix {ECO:0000250 UniProtKB:P38345}

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.