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C22orf28 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59455

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9Y3I0
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55210
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HSPC117/C22orf28
Epitope Specificity	411-505/505
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	Cytoplasm.
SIMILARITY	Belongs to the RtcB family.
SUBUNIT	Catalytic component of the tRNA-splicing ligase complex.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HSPC117, also known as C22orf28, is a 505 amino acid protein that is encoded by a gene which maps to human chromosome 22. A highly homologous protein identified in rodents, FAAP (focal adhesion associated protein), encoded by murine D10Wsu52e gene, has been suggested to play a role in regulating cell adhesion dynamics. Chromosome 22 houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, Neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia Chromosome and the subsequent production of the novel fusion protein BCR-Abl, a potent cell proliferation activator found in several types of leukemias.

Additional Information

Gene ID	51493
Other Names	RNA-splicing ligase RtcB homolog {ECO:0000255|HAMAP-Rule:MF_03144, ECO:0000305}, 6.5.1.8 {ECO:0000255|HAMAP-Rule:MF_03144, ECO:0000269|PubMed:24870230, ECO:0000305|PubMed:21311021}, 3'-phosphate/5'-hydroxy nucleic acid ligase {ECO:0000255|HAMAP-Rule:MF_03144, ECO:0000305}, RTCB {ECO:0000255|HAMAP-Rule:MF_03144}, C22orf28

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	RTCB {ECO:0000255|HAMAP-Rule:MF_03144}
Synonyms	C22orf28
Function	Catalytic subunit of the tRNA-splicing ligase complex that acts by directly joining spliced tRNA halves to mature-sized tRNAs by incorporating the precursor-derived splice junction phosphate into the mature tRNA as a canonical 3',5'-phosphodiester. May act as an RNA ligase with broad substrate specificity, and may function toward other RNAs.
Cellular Location	Nucleus. Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03144, ECO:0000269|PubMed:24608264} Note=Enters into the nucleus in case of active transcription while it accumulates in cytosol when transcription level is low