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A1CF Rabbit pAb

Catalog # AP99092

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NQ94
Other Accession	Q9NQ94
Reactivity	Rat, Mouse
Predicted	Pig, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65202
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human A1CF
Epitope Specificity	101-200/594
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 3 RRM (RNA recognition motif) domains.
SUBUNIT	Part of the apolipoprotein B mRNA editing complex with APOBEC1. Interacts with TNPO2; TNPO2 may be responsible for transport of A1CF into the nucleus. Interacts with SYNCRIP. Interacts with CELF2/CUGBP2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Essential component of the apolipoprotein B mRNA editing enzyme complex which is responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in APOB mRNA. Binds to APOB mRNA and is probably responsible for docking the catalytic subunit, APOBEC1, to the mRNA to allow it to deaminate its target cytosine. The complex also protects the edited APOB mRNA from nonsense-mediated decay.

Additional Information

Gene ID	29974
Other Names	ACF; ACF64; ACF65; APOBEC1CF; ASP; 1810073H04Rik; 9130016M20Rik; MCM; MerCreMer; Tg(Myh6-cre/Esr1*)1Jmk; alpha-MHC-MerCreMer; alphaMHC-Cre-Mer-Cre; mer; A1cft; Apobec-1; A1CF_HUMAN; A1CF; APOBEC1-stimulating protein; A1CF_MOUSE; A1CF_RAT; APOBEC1 complementation factor
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	A1CF
Synonyms	ACF, ASP {ECO:0000312|EMBL:CAB94754.1}
Function	Essential component of the apolipoprotein B mRNA editing enzyme complex which is responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in APOB mRNA. Binds to APOB mRNA and is probably responsible for docking the catalytic subunit, APOBEC1, to the mRNA to allow it to deaminate its target cytosine. The complex also protects the edited APOB mRNA from nonsense- mediated decay.
Cellular Location	Nucleus. Endoplasmic reticulum Cytoplasm. Note=Predominantly nuclear where it localizes to heterochromatin. Also cytoplasmic where it is found at the outer surface of the endoplasmic reticulum (By similarity). Shuttles between the nucleus and cytoplasm. May be transported into the nucleus by the nuclear import protein TNPO2/TRN2 or by APOBEC1.
Tissue Location	Widely expressed with highest levels in brain, liver, pancreas, colon and spleen.

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