

ARG45393 anti-APOBEC3C antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes APOBEC3C
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	APOBEC3C
Species	Human
Immunogen	Synthetic peptide corresponding to N-terminal region of human APOBEC3C.
Conjugation	Un-conjugated
Alternate Names	ARDC4; ARDC2; Phorbolin I; bK150C2.3; A3C; APOBEC1-like; DNA dC->dU-editing enzyme APOBEC-3C; EC 3.5.4.-; ARP5; APOBEC1L; PBI

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	23 kDa	

Properties

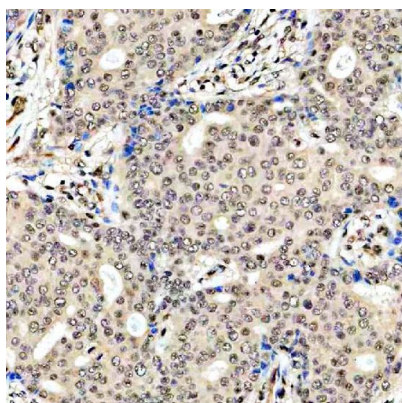
Form	Powder
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

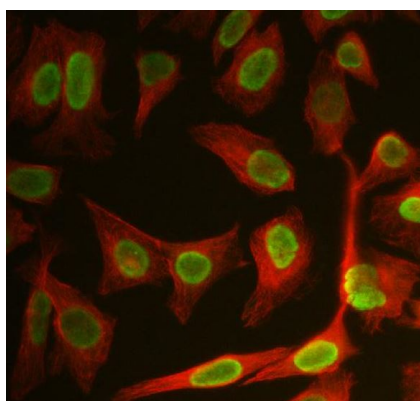
Gene Symbol	APOBEC3C
Gene Full Name	Apolipoprotein B mRNA Editing Enzyme Catalytic Subunit 3C
Background	This gene is a member of the cytidine deaminase gene family. It is one of seven related genes or pseudogenes found in a cluster thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1. It is thought that the proteins may be RNA editing enzymes and have roles in growth or cell cycle control. [provided by RefSeq, Jul 2008]
Function	DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. After the penetration of retroviral nucleocapsids into target cells of infection and the initiation of reverse transcription, it can induce the conversion of cytosine to uracil in the minus-sense single-strand viral DNA, leading to G-to-A hypermutations in the subsequent plus-strand viral DNA. The resultant detrimental levels of mutations in the proviral genome, along with a deamination-independent mechanism that works prior to the proviral integration, together exert efficient antiretroviral effects in infected target cells. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA. Exhibits antiviral activity against simian immunodeficiency virus (SIV), hepatitis B virus (HBV), herpes simplex virus 1 (HSV-1) and Epstein-Barr virus (EBV) and may inhibit the mobility of LTR and non-LTR retrotransposons. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation. [UniProt]
Calculated Mw	23 kDa
Cellular Localization	Cytoplasm; Nucleus. [UniProt]

Images



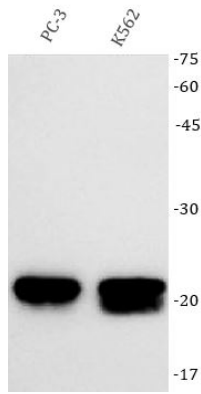
ARG45393 anti-APOBEC3C antibody IHC-P image

Immunohistochemistry: Human breast cancer stained with ARG45393 anti-APOBEC3C antibody at 2 µg/ml dilution.



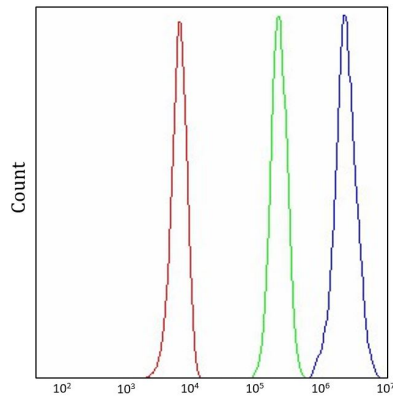
ARG45393 anti-APOBEC3C antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG45393 anti-APOBEC3C antibody at 5 µg/ml dilution.



ARG45393 anti-APOBEC3C antibody WB image

Western blot: PC-3 and K562 stained with ARG45393 anti-APOBEC3C antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45393 anti-APOBEC3C antibody FACS image

Flow Cytometry: K562 stained with ARG45393 anti-APOBEC3C antibody at 1 $\mu\text{g}/10^6$ cells dilution.



ARG45393 anti-APOBEC3C antibody WB image

Western blot: Rat spleen stained with ARG45393 anti-APOBEC3C antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45393 anti-APOBEC3C antibody WB image

Western blot: Mouse spleen stained with ARG45393 anti-APOBEC3C antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.