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APOBEC3C Antibody
Rabbit Polyclonal Antibody
Catalog # ALS17046

Specification

APOBEC3C Antibody - Product Information

Application	**IHC**
Primary Accession	Q9NRW3
Other Accession	27350
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**22826**

APOBEC3C Antibody - Additional Information

Gene ID 27350

Other Names
APOBEC3C, A3C, APOBEC1-like, APOBEC1L, ARP5, BK150C2.3, Phorbolin i, ARDC2, ARDC4, PBI

Target/Specificity
Human APOBEC3C. Cross-reactivity with APOBEC3C from other sources has not been determined.

Reconstitution & Storage
PBS, pH 7.4, 0.02% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions
APOBEC3C Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

APOBEC3C Antibody - Protein Information

Name APOBEC3C

Synonyms APOBEC1L, PBI

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 (HHV-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.

Cellular Location
Nucleus. Cytoplasm

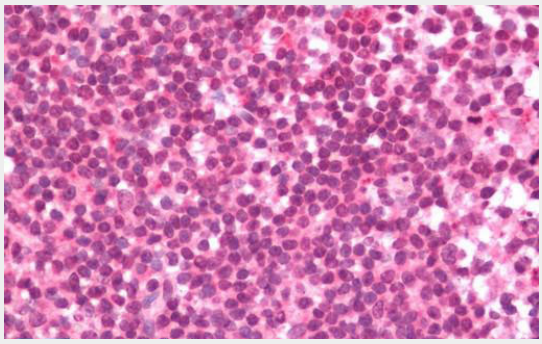
Tissue Location
Expressed in spleen, testes, peripherical blood lymphocytes, heart, thymus, prostate and ovary

APOBEC3C Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

APOBEC3C Antibody - Images



Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

APOBEC3C Antibody - Background

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demethylation.

APOBEC3C Antibody - References

Gu J.,et al.Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.