

APOBEC3G Antibody

APOBEC3G (NT): Apolipoprotein B mRNA editing enzyme catalytic polypeptide-like 3F

CATALOG No.: 3257

BACKGROUND:

The Apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like (APOBEC) 3 is a multi-isoform member of the cytidine deaminase family of enzymes that act on monomeric nucleoside and nucleotide substrates (1). Similar to TRIM5 α which targets incoming retroviral capsids, APOBEC3 plays a major role in cellular defense against retroviral infection (2,3) as at least two isoforms, APOBEC3G and to a lesser extent APOBEC3F, can be incorporated HIV-1 virions and induce hypermutation in the newly synthesized viral DNA and thus destabilize the viral genome (4,5). This innate mechanism of retroviral resistance is counteracted by the HIV-1 Vif protein by inducing the ubiquitization and degradation of APOBEC3G; a single amino acid substitution (D128K) blocks APOBEC3G depletion without affecting its inhibitory activity (6).

SOURCE:

Rabbit polyclonal APOBEC3G antibody was raised against a synthetic peptide corresponding to 15 amino acids near the amino-terminus of human APOBEC3G (Genbank accession No. NP_068594). APOBEC3G antibody will also detect the APOBEC3F isoform.

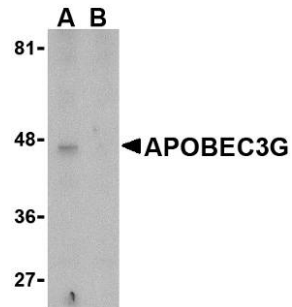
APPLICATION:

APOBEC3G antibody can be used for detection of APOBEC3G by Western blot at 5 μ g/ml. (Optimal dilution should be determined by user.) Caco-2 cell lysate can be used as a positive control. APOBEC3G antibody is human specific.

For research use only.

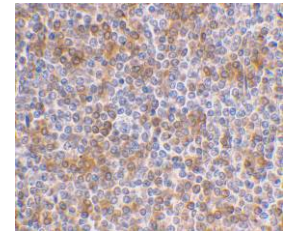
STORAGE:

APOBEC3G antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of APOBEC3G expression in Caco-2 cell lysate in the (A), absence and (B) presence of blocking peptide with APOBEC3G antibody at 5 μ g/ml.

Immunohistochemical staining of human spleen using APOBEC3G antibody at 1 μ g/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **3257P**.

Caco-2 Cell Lysate, Catalog No. **1223**.

TRIM5 α Antibody (CT), Catalog No. **3249**.

TRIM5 α Antibody (IN1), Catalog No. **3247**.

TRIM5 α Antibody (IN2), Catalog No. **3251**.

REFERENCES:

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