

APOBEC3B (H-22): sc-130955

BACKGROUND

APOBEC (apolipoprotein B mRNA editing enzyme, catalytic) proteins inhibit retroviruses by deaminating cytosine residues of viral RNA and DNA. The seven APOBEC3 genes or pseudogenes are found in a cluster thought to result from gene duplication on chromosome 22. APOBEC3 proteins are thought to be RNA editing enzymes and have roles in cell growth. APOBEC3B, also known as phorbolin-1-related protein or phorbolin-2/3, is a 382 amino acid protein belonging to the cytidine and deoxycytidylate deaminase family. APOBEC3B lacks cytidine deaminase activity on RNA molecules, but has been shown to bind to apoB and AU-rich RNAs. APOBEC3B forms a homodimer and interacts with APOBEC3G. APOBEC3B is expressed at moderate levels in heart, testes, thymus, prostate, ovary, spleen and peripheral blood leukocytes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: APOBEC3B (human) mapping to 22q13.1.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

APOBEC3B (H-22) is an affinity purified rabbit polyclonal antibody raised against synthetic APOBEC3B peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

APOBEC3B (H-22) is recommended for detection of APOBEC3B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for APOBEC3B siRNA (h): sc-72515, APOBEC3B shRNA Plasmid (h): sc-72515-SH and APOBEC3B shRNA (h) Lentiviral Particles: sc-72515-V.

Molecular Weight (predicted) of APOBEC3B: 46 kDa.

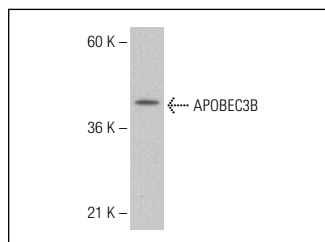
Molecular Weight (observed) of APOBEC3B: 42 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, APOBEC3B (h): 293T Lysate: sc-116560 or APOBEC3B (h2): 293T Lysate: sc-127985.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



APOBEC3B (H-22): sc-130955. Western blot analysis of APOBEC3B expression in Hep G2 whole cell lysate.

RESEARCH USE

For research use only, not for use in diagnostic procedures.