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AP31973PU-N Polyclonal Antibody to APOBEC3A - Aff - Purified

Alternate names: Apolipoprotein B mRNA editing enzyme, Phorbolin-1, catalytic polypeptide-like 3A

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Background: PHO1 a member of the cytidine deaminase gene family. The PHO1 gene 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. This gene encodes a protein that lacks the zinc binding activity and may be an expressed pseudogene.

Uniprot ID: P31941

NCBI: NP_001180218.1

GeneID: 100913187

Host: Goat

Immunogen: Synthetic peptide with sequence from the internal region of Human APOBEC3A (NP_663745.1).
Genename: APOBEC3A
AA Sequence:
C-TSNFNNGIGRHKTY

Format: **State:** Liquid purified Ig fraction
Purification: Immunoaffinity Chromatography
Buffer System: Tris saline, pH~7.3
Preservatives: 0.02% Sodium Azide
Stabilizers: 0.5% BSA

Applications: **Peptide ELISA:** 1/8000 (Detection limit).
Western blot: 3-6 µg/ml. Approx. 26-28kDa band observed in Human Spleen, Tonsil and Peripheral Blood Monocytes (PBM) lysates (calculated MW of 23.0kDa according to Human NP_663745.1). The observed molecular weight corresponds to earlier findings with different antibodies from other commercial sources. Recommended concentration: 0.1-1ug/ml. Primary incubation 1 hour at room temperature.
Immunohistochemitry on Paraffin Sections: 3-6 µg/ml. In paraffin embedded Human Tonsil shows staining of distinct parts of the nucleus in lymphoid cells.
Immunofluorescence: 10 µg/ml. Strong expression of the protein seen in the nucleus of A431 and A549 cells. **Flow Cytometry:** 10 µg/ml. Flow cytometric analysis of Jurkat cells.

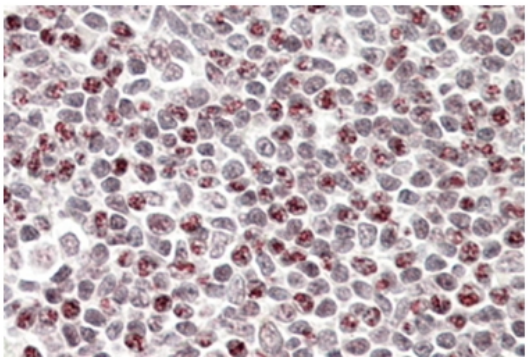
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes Human Phorbolin 1 / APOBEC3A.
Other species not tested.

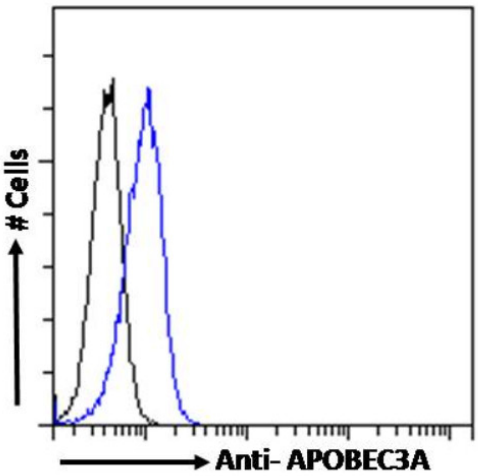
Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

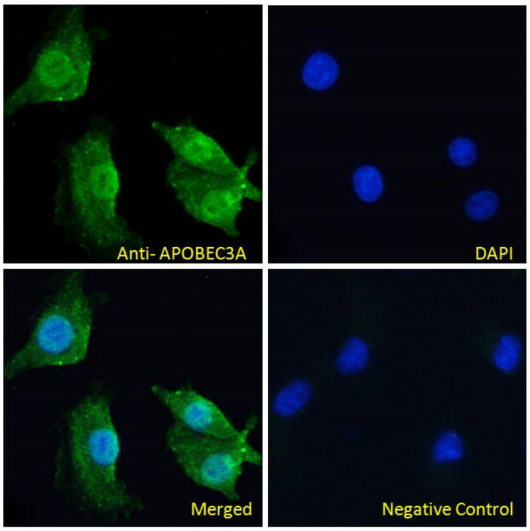
Paraffin Embedded Human Tonsil stained with APOBEC3A antibody Cat.-No AP31973PU-N at 3.8 µg/ml. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



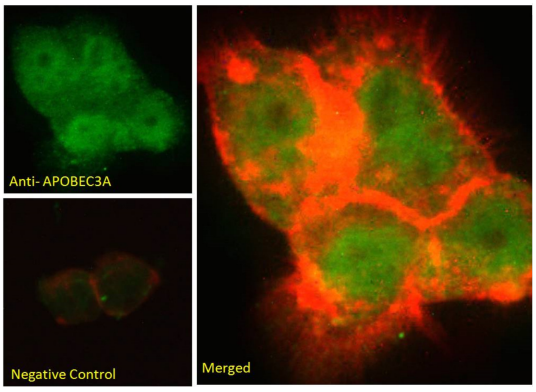
AP31973PU-N Flow cytometric analysis of paraformaldehyde fixed Jurkat cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody



AP31973PU-N Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and some cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



AP31973PU-N Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



AP31973PU-N (1µg/ml) staining of Human Spleen (A), Tonsil (B) and (0.1ug/ml) PBM (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.