Product datasheet

Anti-CIITA Antibody

Catalog Number: *A01556-3*

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Basic Information

Product Name	Anti-CIITA Antibody
Gene Name	CIITA
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human CIITA recombinant protein (Position: Y34-A1038). Human CIITA shares 69.6% amino acid (aa) sequence identity with mouse CIITA.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	123 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CIITA is a human gene which is mapped to 16p13. This gene encodes a protein with an acidic transcriptional activation domain, 4 LRRs (leucine-rich repeats) and a GTP binding domain. The protein is located in the nucleus and acts as a positive regulator of class II major histocompatibility complex gene transcription, and is referred to as the "master control factor" for the expression of these genes. Also, the protein binds GTP and uses GTP binding to facilitate its own transport into the nucleus. Once in the nucleus it does not bind DNA but rather uses an intrinsic acetyltransferase (AT) activity to act in a coactivator-like fashion. Mutations in this gene have been associated with bare lymphocyte syndrome type II (also known as hereditary MHC class II deficiency or HLA class II-deficient combined immunodeficiency), increased susceptibility to rheumatoid arthritis, multiple sclerosis, and possibly myocardial infarction. Several transcript

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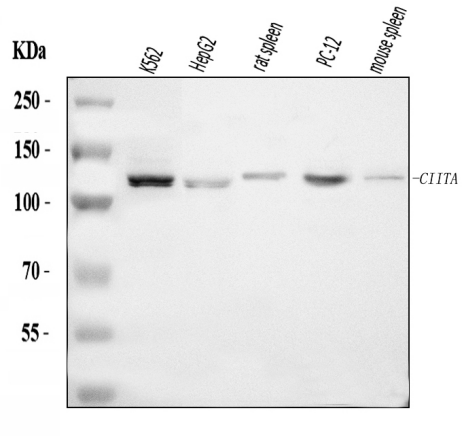
variants encoding different isoforms have been found for this gene.

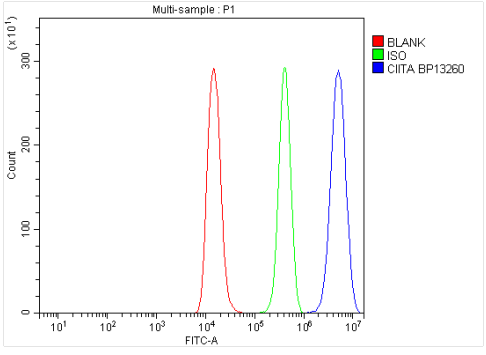
Reference

Anti-CIITA Antibody 被引用在1文献中。

Selected Validation Data



Western blot analysis of CIITA using anti-CIITA antibody (A01556-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: K562 whole cell lysates,
Lane 2: HepG2 whole cell lysates,
Lane 3: rat spleen tissue lysates,
Lane 4: PC-12 whole cell lysates,
Lane 5: mouse spleen tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CIITA antigen affinity purified polyclonal antibody (A01556-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CIITA at approximately 123 kDa. The expected band size for CIITA is at 124 kDa.



Flow Cytometry analysis of Raji cells using anti-CIITA antibody (A01556-3).
Overlay histogram showing Raji cells stained with A01556-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CIITA Antibody (A01556-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for

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30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.