

Datasheet for ABIN4886541  
**anti-CIITA antibody (AA 945-1130)**



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1 Publication

## Overview

Quantity:	100 µg
Target:	CIITA
Binding Specificity:	AA 945-1130
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for MHC class II transactivator(CIITA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human CIITA recombinant protein (Position: E945-R1130). Human CIITA shares 84.4% amino acid (aa) sequence identity with mouse CIITA.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for MHC class II transactivator(CIITA) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: class II, major histocompatibility complex, transactivator</p> <p>Protein Name: MHC class II transactivator</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	CIITA
Alternative Name:	CIITA ( <a href="#">CIITA Products</a> )
Background:	<p>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 variants encoding different isoforms have been found for this gene.</p> <p>Synonyms: C2TA   CIITA   CIITA IV   MHC2TA   NLRA   P33076</p>
Gene ID:	4261
UniProt:	<a href="#">P33076</a>
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

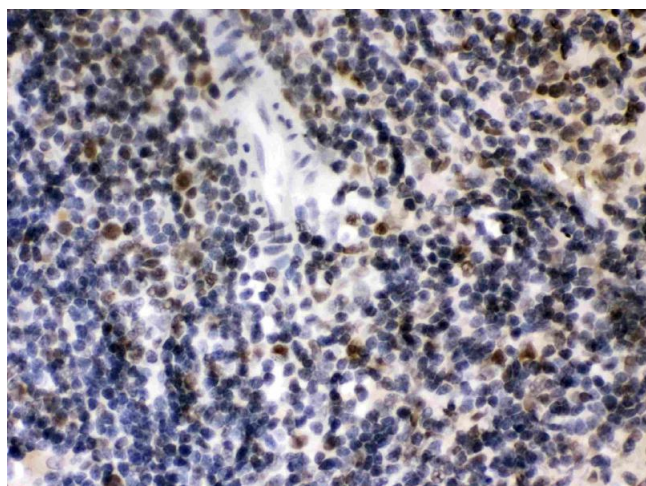
## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in:	Sun, Huang, Yu, Zhang, Xu, Zhang, Li, Dong, Guo, Wang: "Autoregulatory loop between TGF-β1/ miR-411-5p/SPRY4 and MAPK pathway in rhabdomyosarcoma modulates proliferation and differentiation." in: <b>Cell death &amp; disease</b> , Vol. 6, pp. e1859, (2016) ( <a href="#">PubMed</a> ).
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## Images



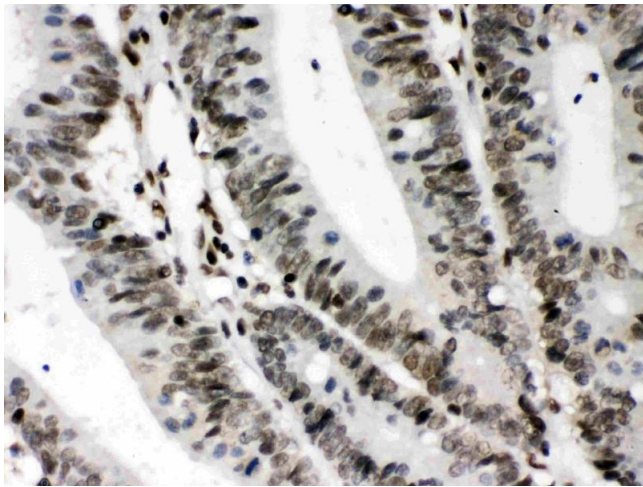
### Immunohistochemistry

**Image 1.** CIITA was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti- CIITA Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



### Western Blotting

**Image 2.** Western blot analysis of CIITA expression in rat thymus extract ( Lane 1), mouse thymus extract ( Lane 2) and MCF-7 whole cell lysates ( Lane 3). CIITA at 123KD was detected using rabbit anti- CIITA Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



### Immunohistochemistry

**Image 3.** CIITA was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- CIITA Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN4886541.