

## ARG59049 anti-CIITA antibody

Package: 50 μg Store at: -20°C

## Summary

Product Description	Rabbit Polyclonal antibody recognizes CIITA
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Target Name	СІІТА
Species	Human
Immunogen	Recombinant protein corresponding to E945-R1130 of Human CIITA.
Conjugation	Un-conjugated
Alternate Names	MHC class II transactivator; NLRA; CIITA; C2TA; MHC2TA; EC 2.3.1; CIITAIV; EC 2.7.11.1

## **Application Instructions**

Application table	Application	Dilution
	IHC-P	0.5 - 1 μg/ml
	WB	0.1 - 0.5 μg/ml
Application Note	IHC-P: Antigen Retrieval: By heat * The dilutions indicate recomme should be determined by the scie	mediation. ended starting dilutions and the optimal dilutions or concentrations entist.

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

# Bioinformation

Gene Symbol	CIITA
Gene Full Name	class II, major histocompatibility complex, transactivator
Background	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. The protein also 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. [provided by RefSeq, Nov 2013]
Function	Essential for transcriptional activity of the HLA class II promoter; activation is via the proximal promoter. No DNA binding of in vitro translated CIITA was detected. May act in a coactivator-like fashion through protein-protein interactions by contacting factors binding to the proximal MHC class II promoter, to elements of the transcription machinery, or both. Alternatively it may activate HLA class II transcription by modifying proteins that bind to the MHC class II promoter. Also mediates enhanced MHC class I transcription; the promoter element requirements for CIITA-mediated transcription are distinct from those of constitutive MHC class I transcription, and CIITA can functionally replace TAF1 at these genes. Exhibits intrinsic GTP-stimulated acetyltransferase activity. Exhibits serine/threonine protein kinase activity: can phosphorylate the TFIID component TAF7, the RAP74 subunit of the general transcription factor TFIIF, histone H2B at 'Ser-37' and other histones (in vitro). [UniProt]
Calculated Mw	124 kDa
РТМ	Autophosphorylated, affecting interaction with TAF7. [UniProt]
Cellular Localization	Nucleus. Nucleus, PML body. Recruited to PML body by PML. [UniProt]

## Images



### ARG59049 anti-CIITA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse spleen tissue stained with ARG59049 anti-CIITA antibody at 1  $\mu$ g/ml dilution.



#### ARG59049 anti-CIITA antibody WB image

Western blot: Rat thymus, Mouse thymus and MCF-7 lysates stained with ARG59049 anti-CIITA antibody at 0.5  $\mu g/ml$  dilution.



#### ARG59049 anti-CIITA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat spleen tissue stained with ARG59049 anti-CIITA antibody at 1  $\mu g/ml$  dilution.



### ARG59049 anti-CIITA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue stained with ARG59049 anti-CIITA antibody at 1  $\mu g/ml$  dilution.