

CIITA Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS14120**Specification**

CIITA Antibody (N-Terminus) - Product Information

Application	IF, WB, IHC
Primary Accession	P33076
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	124kDa KDa

CIITA Antibody (N-Terminus) - Additional Information**Gene ID** 4261**Other Names**

MHC class II transactivator, CIITA, 2.3.1.-, 2.7.11.1, CIITA, MHC2TA

Target/Specificity

Human CIITA

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

CIITA Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CIITA Antibody (N-Terminus) - Protein Information**Name** CIITA ([HGNC:7067](#))**Synonyms** MHC2TA**Function**

Essential for transcriptional activity of the HLA class II promoter; activation is via the proximal promoter (PubMed: [8402893](http://www.uniprot.org/citations/8402893), PubMed: [7749984](http://www.uniprot.org/citations/7749984), PubMed: [17493635](http://www.uniprot.org/citations/17493635), PubMed: [16600381](http://www.uniprot.org/citations/16600381)). Does not bind DNA (PubMed: [8402893](http://www.uniprot.org/citations/8402893), PubMed: [7749984](http://www.uniprot.org/citations/7749984), PubMed: [17493635](http://www.uniprot.org/citations/17493635), PubMed: [16600381](http://www.uniprot.org/citations/16600381)). 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 PubMed:8402893, PubMed:7749984, (PubMed:17493635, PubMed:16600381). Alternatively it may activate HLA class II transcription by modifying proteins that bind to the MHC class II promoter (PubMed:8402893, PubMed:7749984, PubMed:17493635, PubMed:16600381). 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. Activates CD74 transcription (PubMed:32855215). Exhibits intrinsic GTP- stimulated acetyltransferase activity (PubMed:11172716). 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) (PubMed:24036077). Has antiviral activity against Ebola virus and coronaviruses, including SARS-CoV-2 (PubMed:32855215). Induces resistance by up-regulation of the p41 isoform of CD74, which blocks cathepsin-mediated cleavage of viral glycoproteins, thereby preventing viral fusion (PubMed:32855215).

Cellular Location

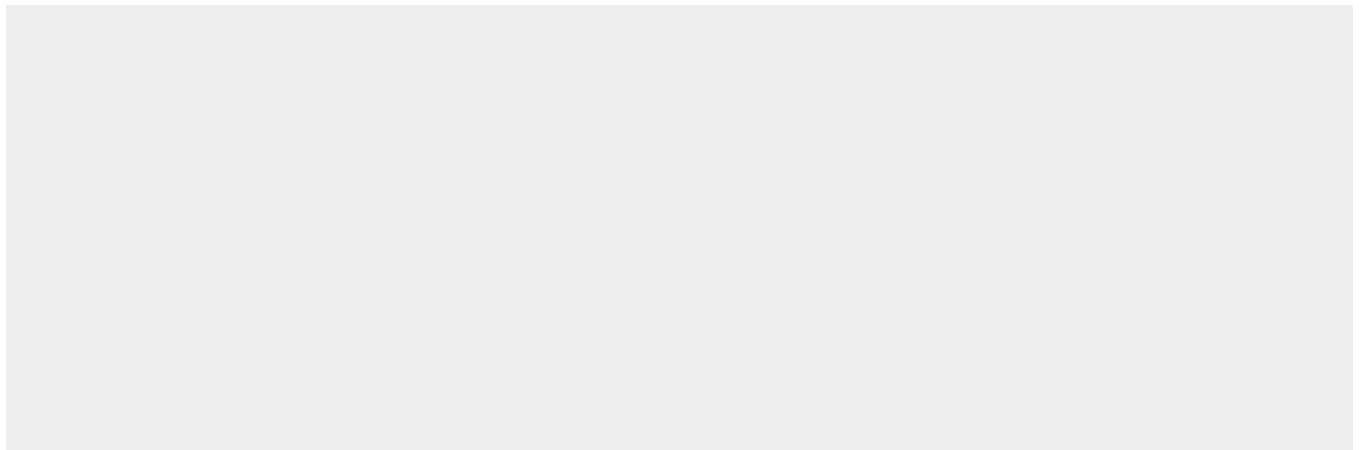
Nucleus. Nucleus, PML body. Note=Recruited to PML body by PML

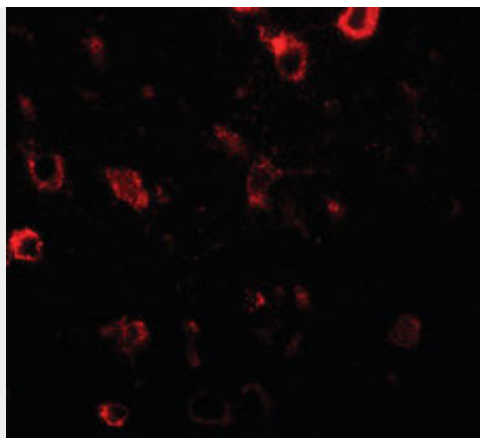
CIITA Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

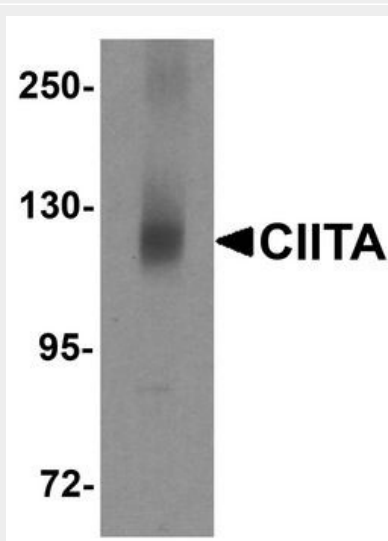
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CIITA Antibody (N-Terminus) - Images

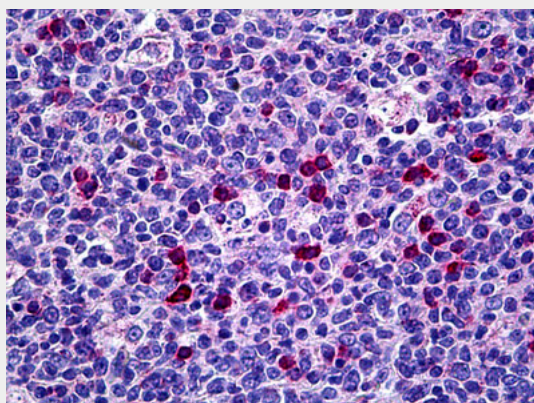




Immunofluorescence of CIITA in human brain tissue with CIITA antibody at 20 ug/ml.



Western blot analysis of CIITA in mouse brain tissue lysate with CIITA antibody at 1 ug/ml.



Anti-CIITA antibody IHC of human tonsil.

CIITA Antibody (N-Terminus) - Background

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).

CIITA Antibody (N-Terminus) - References

Steimle V.,et al.Cell 75:135-146(1993).
Riley J.L.,et al.Immunity 2:533-543(1995).
Quinn G.,et al.Eur. J. Immunogenet. 30:259-270(2003).
Day N.E.,et al.Leuk. Res. 27:1027-1038(2003).
Livingston R.J.,et al.Submitted (OCT-2006) to the EMBL/GenBank/DDBJ databases.