

CIITA antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI11344**Specification**

CIITA antibody - middle region - Product Information

Application	WB
Primary Accession	P33076
Other Accession	NM_000246 , NP_000237
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Rat, Rabbit, Chicken, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123kDa KDa

CIITA antibody - middle region - Additional Information**Gene ID** 4261**Alias Symbol** C2TA, CIITA IV, MHC2TA, NLRA, CIITAIV
Other Names
MHC class II transactivator, CIITA, 2.3.1.-, 2.7.11.1, CIITA, MHC2TA**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CIITA antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CIITA antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

CIITA antibody - middle region - 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: [16600381](http://www.uniprot.org/citations/16600381), PubMed: [17493635](http://www.uniprot.org/citations/17493635), PubMed: [7749984](http://www.uniprot.org/citations/7749984), PubMed: [8402893](http://www.uniprot.org/citations/8402893))

target="_blank">8402893). Does not bind DNA (PubMed:16600381, PubMed:17493635, PubMed:7749984, PubMed:8402893). 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:16600381, PubMed:17493635). Alternatively it may activate HLA class II transcription by modifying proteins that bind to the MHC class II promoter (PubMed:16600381, PubMed:17493635, PubMed:7749984, PubMed:8402893). 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

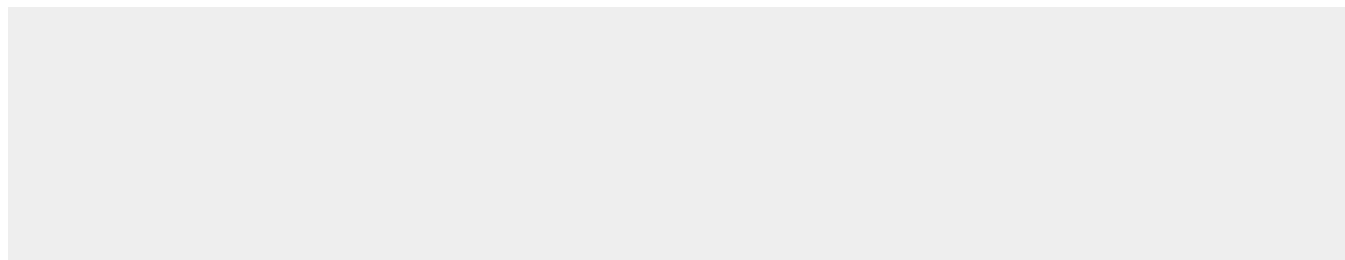
Nucleus. Nucleus, PML body. Note=Recruited to PML body by PML

CIITA antibody - middle region - 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 - middle region - Images





WB Suggested Anti-CIITA Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: Human Liver

CIITA antibody - middle region - References

Lovkvist, H., (et al) Eur. J. Hum. Genet. (2008) In press. Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.