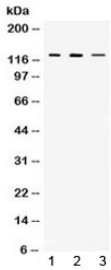
CIITA Antibody (R32481)

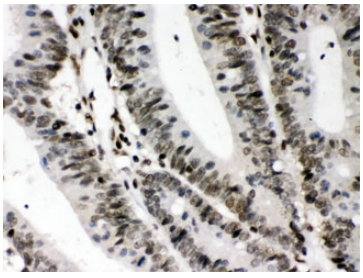
Catalog No.	Formulation	Size
R32481	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

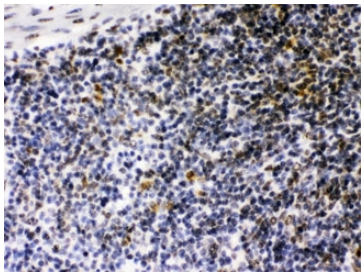
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P33076
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This CIITA antibody is available for research use only.



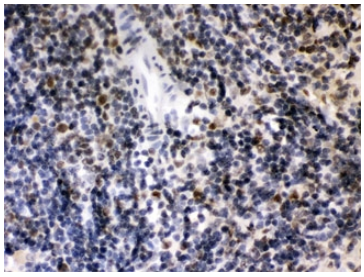
Western blot testing of 1) rat thymus, 2) mouse thymus and 3) MCF7 lysate with CIITA antibody at 0.5ug/ml. Predicted/observed molecular weight ~123 kDa.



IHC testing of FFPE human intestine cancer tissue with CIITA antibody at 1ug/ml. HIER: steam in pH6 citrate buffer and allow to cool prior to staining.



IHC testing of FFPE mouse spleen with CIITA antibody at 1ug/ml. HIER: steam in pH6 citrate buffer and allow to cool prior to staining.



IHC testing of FFPE rat spleen with CIITA antibody at 1ug/ml. HIER: steam in pH6 citrate buffer and allow to cool prior to staining.

Description

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.

Application Notes

Optimal dilution of the CIITA antibody should be determined by the researcher.

Immunogen

Amino acids E945-R1130 from the human protein were used as the immunogen for the CIITA antibody.

Storage

Prior to reconstitution, store at 4oC. After reconstitution, the CIITA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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