

For Research Use Only

CIITA Polyclonal antibody

Catalog Number: 55099-1-AP

1 Publications



Basic Information

Catalog Number: 55099-1-AP	GenBank Accession Number: NM_000246	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4261	Recommended Dilutions: WB 1:200-1:1000
Source: Rabbit	Full Name: class II, major histocompatibility complex, transactivator	
Isotype: IgG	Calculated MW: 124 kDa	
	Observed MW: 120-130 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : K-562 cells,
Cited Applications: WB	
Species Specificity: human	
Cited Species: human	

Background Information

CIITA, also named as MHC2TA, is a 1130 amino acid protein, which interacts with ZFXA and ZFXC. MHC class II molecules are heterodimeric cell surface glycoproteins expressed on B cells, macrophages and dendritic cells, which present antigens to CD4+ T cells. CIITA (class II transactivator) acts as a coactivator for MHC class II-specific gene expression and negatively regulates the IL-4 gene promoter during T cell differentiation. IFNγ induces CIITA gene expression via JAK1 and Stat1 pathways. Defects of CIITA and RFX-B have been implicated as causes of Bare Lymphocyte Syndrome (BLS), which is characterized by the absence of MHC class II transcription and severe immunodeficiencies.

Notable Publications

Author	Pubmed ID	Journal	Application
Bin Ma	37427112	Front Oncol	WB

Storage

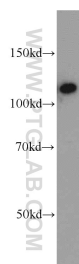
Storage:
Store at -20°C.
Storage Buffer:
0.1M NaHCO₃, 0.1M glycine, 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 55099-1-AP (CIITA antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.