## **CIITA Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 140	Source/Isotype: Rabbit	UniProt ID: #P33076	Entrez-Gene Id: 4261	
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:50					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		CIITA Antibody detects transfected levels of total CIITA protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu149 of human CIITA. Antibodies are purified by peptide affinity chromatography.					
Background		MHC class II (MHC-II) proteins play critical roles in cellular immune responses and their expression is mainly regulated by the non-DNA binding transcription factor CIITA (MHC class II transactivator) (1,2). CIITA expression is upregulated by IFN-y and it in turn enchances MHC-II expression and represses collagen expression (3,4). CIITA has a limited number of transcriptional targets, most of which are involved in MHC-mediated antigen presentation (5). Mutations in the CIITA are associated with the hereditary immunodeficiency disease Bare Lymphocyte Syndrome (BLS) which is characterized by a nearly complete absence of MHC-II expression (also referred to as MHC-II deficiency) (6,7).					
Background References		<ol> <li>Ting, J.P. and Trowsdale, J. (2002) <i>Cell</i> 109 Suppl, S21-33.</li> <li>Drozina, G. et al. (2005) <i>Curr Top Microbiol Immunol</i> 290, 147-70.</li> <li>Dong, Y. et al. (1999) <i>J Immunol</i> 162, 4731-9.</li> <li>Butticè, G. et al. (2006) <i>Circ Res</i> 98, 472-9.</li> <li>Krawczyk, M. et al. (2008) <i>PLoS Genet</i> 4, e1000058.</li> <li>Reith, W. and Mach, B. (2001) <i>Annu Rev Immunol</i> 19, 331-73.</li> <li>Waldburger, J.M. et al. (2000) <i>Immunol Rev</i> 178, 148-65.</li> </ol>					
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X					

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Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	W: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: Human			
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