

#3793

CIITA Antibody



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

Applications: WB, IP	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 140	Source: Rabbit	UniProt ID: #P33076	Entrez-Gene Id: 4261
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Product Usage Information	<table style="width: 100%;"> <tr> <td style="width: 50%;">Application</td> <td style="width: 50%;">Dilution</td> </tr> <tr> <td>Western Blotting</td> <td>1:1000</td> </tr> <tr> <td>Immunoprecipitation</td> <td>1:50</td> </tr> </table>	Application	Dilution	Western Blotting	1:1000	Immunoprecipitation	1:50
Application	Dilution						
Western Blotting	1:1000						
Immunoprecipitation	1:50						
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/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-γ and it in turn enhances 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 style="list-style-type: none"> 1. Ting, J.P. and Trowsdale, J. (2002) <i>Cell</i> 109 Suppl, S21-33. 2. Drozina, G. et al. (2005) <i>Curr Top Microbiol Immunol</i> 290, 147-70. 3. Dong, Y. et al. (1999) <i>J Immunol</i> 162, 4731-9. 4. Buttice, G. et al. (2006) <i>Circ Res</i> 98, 472-9. 5. Krawczyk, M. et al. (2008) <i>PLoS Genet</i> 4, e1000058. 6. Reith, W. and Mach, B. (2001) <i>Annu Rev Immunol</i> 19, 331-73. 7. Waldburger, J.M. et al. (2000) <i>Immunol Rev</i> 178, 148-65. 						
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 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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