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MNDA (3C1) Rat mAb (Alexa Fluor® 488 Conjugate)

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

Applications: IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rat IgG1	UniProt ID: #P41218	Entrez-Gene Id: 4332
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Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	MNDA (3C1) Rat mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total MNDA protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a nuclear extract from human granulocytes.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated MNDA (3C1) Rat mAb #3329.	
Background	MNDA (myeloid cell nuclear differentiation antigen) is a transcription factor constitutively expressed in peripheral blood granulocytes and monocytes; low expression is also found in a subset of B cells (1,2). MNDA is a member of the interferon (IFN)-regulated 200 family of genes, which contain one or more copies of a partially conserved domain of 200 amino acid residues thought to mediate protein-protein interaction (3). MNDA may play a role in apoptosis and its expression is reduced in myelodysplastic syndromes (MDS) (4). MNDA has been proposed to be a marker for nodal marginal zone lymphoma (5).	
Background References	<ol style="list-style-type: none"> 1. Briggs, R.C. et al. (1994) <i>J Cell Biochem</i> 56, 559-67. 2. Miranda, R.N. et al. (1999) <i>Hum Pathol</i> 30, 1040-9. 3. Landolfo, S. et al. (1998) <i>Biochimie</i> 80, 721-8. 4. Briggs, R.C. et al. (2006) <i>Cancer Res</i> 66, 4645-51. 5. Kanellis, G. et al. (2009) <i>Leukemia</i> 23, 1847-57. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human	
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