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Aiolos (D1C1E) Rabbit mAb (Alexa Fluor® 488 Conjugate)


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Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA
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Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UKT9	Entrez-Gene Id: 22806
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 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	Aiolos (D1C1E) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Aiolos protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro46 of human Aiolos protein.	
Product 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 Aiolos (D1C1E) Rabbit mAb #15103.	
Background	<p>Aiolos is an Ikaros family transcription factor composed of several zinc fingers that mediate DNA binding and homodimerization or heterodimerization with other Ikaros family members (1). Multiple Aiolos isoforms are generated through alternative splicing of the portion of the transcript encoding the amino-terminal zinc fingers (2). Aiolos is expressed by lymphoid tissues, with highest expression levels seen in mature B and T cells (1). Ikaros family proteins control lymphocyte development by recruiting chromatin remodeling complexes to DNA (3). B cells from mice lacking Aiolos have a reduced threshold for activation, increased proliferation, and elevated levels of IgG and IgE. In addition, Aiolos null mice develop B cell lymphomas (4). In T cells, Aiolos contributes to Th17 cell differentiation by suppressing IL-2 expression (5). Aberrant expression of Aiolos in transformed epithelial cells promotes anchorage independence through downregulation of adhesion-related genes (6). Alterations in the <i>Aiolos</i> gene are observed in near haploid acute lymphoblastic leukemia, and the genetic locus containing Aiolos is linked to increased susceptibility to rheumatoid arthritis and systemic lupus erythematosus (7-9).</p>	
Background References	<ol style="list-style-type: none"> 1. Morgan, B. et al. (1997) <i>EMBO J</i> 16, 2004-13. 2. Liippo, J. et al. (2001) <i>Eur J Immunol</i> 31, 3469-74. 3. Kim, J. et al. (1999) <i>Immunity</i> 10, 345-55. 4. Wang, J.H. et al. (1998) <i>Immunity</i> 9, 543-53. 5. Quintana, F.J. et al. (2012) <i>Nat Immunol</i> 13, 770-7. 6. Li, X. et al. (2014) <i>Cancer Cell</i> 25, 575-89. 7. Holmfeldt, L. et al. (2013) <i>Nat Genet</i> 45, 242-52. 8. Kurreeman, F.A. et al. (2012) <i>Am J Hum Genet</i> 90, 524-32. 9. Lessard, C.J. et al. (2012) <i>Am J Hum Genet</i> 90, 648-60. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
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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