

36426

Helios (D4Z6D) Rabbit mAb



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Applications: W, IP, FC-FP, ChIP, C&R, C&T	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 58, 63-70, 85	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UKS7	Entrez-Gene Id: 22807
Product Usage Information		For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		The CUT&RUN dilutio	n was determined u	sing CUT&RUN Assay Ki	t #86652.	
		Application		,		Dilution
		Western Blotting				1:1000
		Immunoprecipitation				1:200
		Flow Cytometry (Fixed	d/Permeabilized)			1:100
		Chromatin IP				1:50
		CUT&RUN				1:50
		CUT&Tag				1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #54887.				
Specificity/Sensitivity		Helios (D4Z6D) Rabbit mAb recognizes endogenous levels of total Helios protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro424 of human Helios protein.				
Background		Helios (Ikaros family zinc finger 2, IKZF2) is an Ikaros family transcription factor composed of several zinc fingers that mediate DNA binding and homodimerization or heterodimerization with other Ikaros family proteins (1,2). In the hematopoietic system, Helios expression is restricted to T cells and early hematopoietic progenitors (1,2). In regulatory T cells, expression of Helios contributes to an anergic phenotype by binding to the IL-2 promoter and suppressing IL-2 transcription (3). In addition, alteration of the corresponding Helios gene <i>IKZF2</i> is one hallmark of low-hypodiploid acute lymphoblastic leukemia (4).				
Background References		1. Hahm, K. et al. (1998) <i>Genes Dev</i> 12, 782-96. 2. Kelley, C.M. et al. (1998) <i>Curr Biol</i> 8, 508-15. 3. Baine, I. et al. (2013) <i>J Immunol</i> 190, 1008-16. 4. Holmfeldt, L. et al. (2013) <i>Nat Genet</i> 45, 242-52.				
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

W: Western Blotting **IP:** Immunoprecipitation **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:**

Chromatin IP C&R: CUT&RUN C&T: CUT&Tag

Cross-Reactivity Key

H: Human

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