Tope at the lios (D8W4X) XP[®] Rabbit mAb Tope at the lios (D8W4X) XP[®] Rabbit mAb



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Applications: W, W-S, IP, FC-FP, ChIP, ChIP-seq, C&R, C&T	Reactivity: H M	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 and ChIP-seq 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 dilution was determined using CUT&RUN Assay Kit #86652.						
		The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.						
		Application Western Blotting Simple Western™ Immunoprecipitation Flow Cytometry (Fixed Chromatin IP Chromatin IP-seq CUT&RUN CUT&Tag			1:200	00 - 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Helios (D8W4X) XP $^{ extsf{@}}$ Rabbit mAb recognizes endogenous levels of total Helios protein.						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly73 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 Re	eferences	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 Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 K	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag						
Cross-Reactivit	у Кеу	H: Human M: Mouse						
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