Helios (D8W4X) XP[®] Rabbit mAb (PE-Cy7[®] Conjugate)



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Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UKS7	Entrez-Gene Id: 22807
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		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. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>			
Specificity/Sensitivity		Helios (D8W4X) XP [®] Rabbit mAb (PE-Cy7 [®] Conjugate) recognizes endogenous levels of total Helios protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly73 of human Helios protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin in combination with cyanine 7 (PE-Cy7 [®]) 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 Helios (D8W4X) XP [®] Rabbit mAb #42427.			
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 Reactivi	tv	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).

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Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse

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