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## Helios (D8W4X) XP<sup>®</sup> Rabbit mAb (PE Conjugate)

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UKS7	<b>Entrez-Gene Id:</b> 22807
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Helios (D8W4X) XP <sup>®</sup> Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Helios protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly73 of human Helios protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Helios (D8W4X) XP <sup>®</sup> Rabbit mAb #42427.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Hahm, K. et al. (1998) <i>Genes Dev</i> 12, 782-96.</li> <li>Kelley, C.M. et al. (1998) <i>Curr Biol</i> 8, 508-15.</li> <li>Baine, I. et al. (2013) <i>J Immunol</i> 190, 1008-16.</li> <li>Holmfeldt, L. et al. (2013) <i>Nat Genet</i> 45, 242-52.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse	
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