

.2427

Helios (D8W4X) XP® Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Trademarks and Patents

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 μ l of antibody and 10 μ g 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/Permeabilized) Chromatin IP Chromatin IP-seq CUT&RUN CUT&Tag			Dilution 1:1000 1:10 - 1:50 1:200 1:50 - 1:200 1:50 1:50 1:50 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.					
Specificity/Sensitivity		Helios (D8W4X) XP [®] 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 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 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 Reactivit	у	Species reactivity is d	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buf	fer	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			estern Blotting W-S: Simple Western™ IP: Immunoprecipitation FC-FP: Flow Cytometry /Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag				
Cross-Reactivity	Key	H: Human M: Mouse					

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.