#4426 store at -20C

-

FIH (D19B3) Rabbit mAb	C C	Cell Signaling	
	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			

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NWT6	Entrez-Gene Id: 55662			
Product Usage Information		Application Western Blotting			Dilution 1:1000				
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/Sensitivity		FIH (D19B3) Rabbit mAb detects endogenous levels of total FIH protein.							
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr35 of human FIH protein.							
Background		FIH (Factor inhibiting I hydroxylase that mod (1-3). Hypoxia-inducibi response to hypoxic co sensor that regulates domain (CAD) of HIF (4 interaction of HIF-1 wi Under hypoxic conditi regulate transcription through interaction w The Cut-like homeodo the transcriptional lev Asn803 (9). Potential F Notch, and ASB4 (10-1	HIF-1, HIF asparagir ifies target protein le factor (HIF), a tra onditions, is an imp HIF function by hyd 4,5). During normov ith transcriptional c ons, FIH remains in of genes in respon ith proteins, includi main protein CDP c el (8). Phosphorylat -IH substrates also i 2).	ne hydroxylase) is a dioxy function by hydroxylating nscriptional activator inv ortant target for FIH reg roxylating at Asn803 in t kia, FIH uses cellular oxyg pactivators, including the active and does not inhil se to low oxygen condition ng Siah-1, which targets an bind the FIH promote ion of HIF at Thr796 also nclude proteins with ank	vgen-dependent as g target protein as olved in control of ulation. FIH function he carboxy-termin gen to hydroxylate e CBP/p300-interact bit HIF, allowing the cons (4-6). FIH activit FIH for proteasom er region to regulat can prevent FIH hy- syrin repeat domain	paraginyl paragine residues cell cycle in ons as an oxygen al transactivation HIF-1 and prevent ting transactivator. e activator to ty is regulated in al degradation (7). the FIH expression at ydroxylation on ns, such as Ik-B,			
Background Ref	rerences	1. Koivunen, P. et al. (2 2. Linke, S. et al. (2004 3. Lisy, K. and Peet, D.J 4. Mahon, P.C. et al. (20 5. Lando, D. et al. (200 6. Lando, D. et al. (200 7. Fukuba, H. et al. (200 8. Li, J. et al. (2007) <i>Mc</i> 9. Lancaster, D.E. et al. 10. Ferguson, J.E. et al 11. Cockman, M.E. et al 12. Cockman, M.E. et al	2004) <i>J Biol Chem</i> 27 <i>J Biol Chem</i> 279, 1 <i>J.</i> (2008) <i>Cell Death</i> 001) <i>Genes Dev</i> 15, <i>Q Genes Dev</i> 16, 14 <i>Genes Dev</i> 16, 14 <i>Science</i> 295, 858 07) <i>Biochem Bioph</i> <i>J Cell Biol</i> 27, 7345- <i>(2004) Biochem J</i> 3 <i>(2007) Mol Cell Biol</i> <i>Al.</i> (2009) <i>Mol Cell Piol</i> <i>Al.</i> (2009) <i>Mol Cell Piol</i> <i>Coll Piol</i> 27, 2001 <i>Coll Biochem J</i> 3 <i>(2007) Mol Cell Piol</i> <i>Coll Piol</i> 2009) <i>Mol Cell Piol</i>	9, 9899-904. 4391-7. Differ 15, 642-9. 2675-86. 466-71. -61. <i>ys Res Commun</i> 353, 324 53. 83, 429-37. 5/ 27, 6407-19. Acad Sci USA 103, 14767- roteomics 8, 535-46.	I-9. 72.				
Species Reactivi	ity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).			
Western Blot Bu	ıffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X			
Applications Ke	у	W: Western Blotting							
Cross-Reactivity	v Key	H: Human M: Mouse R: Rat Mk: Monkey							
Trademarks and	l Patents	Cell Signaling Technol	ogy is a trademark	of Cell Signaling Technol	ogy, Inc.				
		All other trademarks a more information.	are the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for			

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.