## 

<b>Applications:</b> V, W-S, IHC-P, IF-IC, FC-FP, ChIP, ChIP- seq, C&R, C&T	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q92908	Entrez-Gene Id: 2627	
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> 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.					
		<b>Application</b> Western Blotting Simple Western™			<b>Dilu</b> 1:100		
		Immunohistochemis	try (Paraffin)			- 1:400	
		Immunofluorescence Flow Cytometry (Fixe	e (Immunocytochen	nistry)	1:800	) - 1:1600 ) - 1:1600	
		Chromatin IP			1:50		
		Chromatin IP-seq			1:50		
		CUT&RUN			1:50		
		CUT&Tag			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.					
		For a carrier free (BS/	A and azide free) ve	rsion of this product see	product #48888.		
Specificity/Sensitivity		GATA-6 (D61E4) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total GATA-6 protein. Non-specific cytoplasmic staining of limited immune cells in mouse small intestine, thymus and spleen was observed by immunohistochemistry.					
Species predicted to react based on 100% sequence homology		Rat, Dog, Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GATA-6 protein.					
Background		GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA (1- 3). There are six vertebrate GATA proteins, designated GATA-1 to GATA-6 (3).					
		gut, and other organ heart tube and a failu	s (5,6). Knock out of ure to develop extra	development (4). It is es: f GATA-6 is embryonic let embryonic endoderm (4 rge number of ovarian tu	hal due to defects in ). Loss of expression	n formation of the	
Background References		1. Ko, L.J. and Engel, J.D. (1993) <i>Mol Cell Biol</i> 13, 4011-22. 2. Merika, M. and Orkin, S.H. (1993) <i>Mol Cell Biol</i> 13, 3999-4010. 3. Lowry, J.A. and Atchley, W.R. (2000) <i>J Mol Evol</i> 50, 103-15. 4. Cai, K.Q. et al. (2008) <i>Dev Dyn</i> 237, 2820-9. 5. Charron, F. and Nemer, M. (1999) <i>Semin Cell Dev Biol</i> 10, 85-91. 6. Haveri, H. et al. (2008) <i>BMC Gastroenterol</i> 8, 9. 7. Caslini, C. et al. (2006) <i>Oncogene</i> 25, 5446-61.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 12 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	W: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag			
Cross-Reactivity Key	H: Human M: Mouse			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			
	XP is a registered trademark of Cell Signaling Technology, Inc.			
	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 purpose, 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 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.			