FBP1 Antibody		Cell Signaling	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
7	Support:	877-678-TECH (8324)	
#52804	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Massachusetts   01923   USA		
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 39	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P09467	Entrez-Gene Id: 2203		
Product Usage Information	1	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	FBP1 Antibody recognizes endogenous levels of total FBP1 protein.						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human FBP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Fructose-1,6-bisphosphatase 1 (FBP1 or FBPase 1), a rate limiting enzyme in gluconeogenesis, catalyzes the conversion of fructose-1,6-bisphosphate to fructose-6-phosphate (1). Inhibition of <i>FBP1</i> expression in basal-like breast cancer (BLBC) cells leads to metabolic reprogramming, including enhanced glycolysis, which leads to increased glucose uptake, biosynthesis of macromolecules, and activation of PKM2 (1). This metabolic reprogramming endows tumor cells with cancer stem cell (CSC)-like properties, thereby increasing their tumorigenicity (1). Depletion of FBP1 was also reported in more than 600 clear cell renal cell carcinoma (ccRCC) tumors, suggesting that FBP1 may inhibit ccRCC tumor progression (2).						
Background Re	eferences	1. Dong, C. et al. (2013) <i>Cancer Cell</i> 23, 316-31. 2. Li, B. et al. (2014) <i>Nature</i> 513, 251-5.						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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