

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit	UniProt ID: #Q12800	Entrez-Gene Id: 7024
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/Sensitivity		TFCP2 Antibody recognizes endogenous levels of total TFCP2 protein.				
Species predicted to react based on 100% sequence homology		Bovine, Dog, Horse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu61 of human TFCP2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The transcription factor CP2 (TFCP2, LSF) is a ubiquitous nuclear protein that was initially shown to bind and activate the alpha-globin promoter in erythroid cells (1). Research studies show that TFCP2 functions as an oncogene in hepatocellular carcinoma (HCC) cells. Overexpression of TFCP2 is seen in HCC patient samples and cell lines; TFCP2 expression correlates with high tumor grade and poor prognosis (2). Forced expression of TFCP2 in less aggressive HCC cells results in highly aggressive, angiogenic and metastatic tumors, while inhibition of TFCP2 abrogates growth and metastasis of highly aggressive HCC cells (2). Additional studies show that TFCP2 acts downstream of Notch1 in HCC cells, where it mediates Notch pathway signaling during proliferation and invasion of hepatocellular carcinoma (3). TFCP2 functions as an oncogene as it upregulates multiple genes involved in angiogenesis, cell invasion, and chemoresistance, including osteopontin, metalloproteinase-9, fibronectin 1, tight junction protein 1, and thymidylate synthase (2-5). Factor quinolinone inhibitor 1 (FQI1) is a small molecule inhibitor of TFCP2 that inhibits TFCP2 DNA-binding activity, reduces expression of TFCP2 target genes, and rapidly induces cell death in TFCP2-overexpressing HCC cell lines (6).				
Background References		1. Lim, L.C. et al. (1993) <i>J Biol Chem</i> 268, 18008-17. 2. Yoo, B.K. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 8357-62. 3. Fan, R.H. et al. (2011) <i>World J Gastroenterol</i> 17, 3420-30. 4. Santhekadur, P.K. et al. (2012) <i>J Biol Chem</i> 287, 3425-32. 5. Xu, X. et al. (2015) <i>J Exp Clin Cancer Res</i> 34, 6. 6. Grant, T.J. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, 4503-8.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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-Reactivity Key		H: Human Mk: Monkey				
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