Store at -20C

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ZBP1 Antibody C Orders: Support:



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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 44, 58	Source/Isotype: Rabbit	UniProt ID: #Q9H171	Entrez-Gene Id: 81030		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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/Sens	sitivity	ZBP1 Antibody recognizes endogenous levels of total ZBP1 protein. A band of unknown identity is detected at around 19 kDa.						
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln372 of human ZBP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		ZBP1 (Z-DNA binding protein 1), also referred to as DAI (DNA-dependent activator of IFN-regulatory factors) and DLM-1, is a nucleotide binding protein that plays a role in tumorigenesis and innate immune responses to viral infection (1). It is expressed at high levels in lymphatic tissues and intestine and is induced in macrophages by interferon gamma or by LPS (2,3). It contains two amino-terminal Z-alpha domains that bind to left-handed Z-DNA and Z-RNA (4,5). In addition, an adjacent domain binds right-handed B-DNA that allows for it to function as a cytosolic DNA sensor in innate immune responses, triggering activation of TBK1 and IRF-3, and subsequent production of type I interferons (6,7). Furthermore, ZBP1 can trigger the activation of NF-kB through interaction with the RIP homotypic interaction motif (RHIM) of RIPK1 and RIPK3 (8). ZBP1 binding to RIPK3 can also induce a process of programmed necrosis termed necroptosis (9). In contrast, its interaction with RIPK1 can repress necroptosis (10,11). The mRNA binding activity of ZBP1 is also thought to play a role in tumorigenesis. ZBP1 is repressed in metastatic breast cancer, which leads to dysregulation of mRNA targets involved in proliferation and metastasis (12,13).						
Background References		 Kuriakose, T. and Kanneganti, T.D. (2018) <i>Trends Immunol</i> 39, 123-34. Rothenburg, S. et al. (2002) <i>Nucleic Acids Res</i> 30, 993-1000. Fu, Y. et al. (1999) <i>Gene</i> 240, 157-63. Ross, A.F. et al. (1997) <i>Mol Cell Biol</i> 17, 2158-65. Schwartz, T. et al. (2001) <i>Nat Struct Biol</i> 8, 761-5. Takaoka, A. et al. (2007) <i>Nature</i> 448, 501-5. Wang, Z. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 5477-82. Rebsamen, M. et al. (2009) <i>EMBO Rep</i> 10, 916-22. Upton, J.W. et al. (2016) <i>Nature</i> 540, 129-33. Lin, J. et al. (2006) <i>Nature</i> 540, 124-8. Gu, W. et al. (2009) <i>J Cell Sci</i> 122, 1895-905. Wang, G. et al. (2016) <i>Oncotarget</i> 7, 15690-702. 						
Spacios Paastiv	i+.,	Spacios reactivity is dat	torminad by tasting	a in at least one approve	d application (o.g.	wostorn blot)		
	ity 	species reactivity is del		g in at least one approve				
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	ey (W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	у Кеу	H: Human						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						

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