

**ZCCHC3 Antibody**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	46	Rabbit	#Q9NUD5	85364
<b>Product Usage Information</b>	<b>Application</b>					<b>Dilution</b>
	Western Blotting					1:1000
	Immunoprecipitation					1:100
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>					
<b>Specificity/Sensitivity</b>	ZCCHC3 Antibody recognizes endogenous levels of total ZCCHC3 protein.					
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln17 of human ZCCHC3 protein. Antibodies are purified by peptide affinity chromatography.					
<b>Background</b>	ZCCHC3 belongs to the family of CCHC-type zinc-finger proteins (1). It binds to cGAS and acts as a cGAS co-sensor in recognizing double-stranded DNA (dsDNA), therefore, playing an essential role in innate immune response to DNA virus (2). ZCCHC3 was also shown to bind dsRNA and promote the binding of dsRNA by the retinoic acid-inducible gene-I (RIG-I)-like receptors (RLRs) RIG-I and MDA5, playing a critical role in RLR-mediated innate immune response to RNA virus (3).					
<b>Background References</b>	1. Klug, A. and Rhodes, D. (1987) <i>Cold Spring Harb Symp Quant Biol</i> 52, 473-82. 2. Lian, H. et al. (2018) <i>Nat Commun</i> 9, 3349. 3. Lian, H. et al. (2018) <i>Immunity</i> 49, 438-448.e5.					

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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