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#67798**GBP5 (D3A50) Rabbit mAb**

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 67	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q96PP8	<b>Entrez-Gene Id:</b> 115362
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:200
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	GBP5 (D3A50) Rabbit mAb recognizes endogenous levels of total GBP5 protein. Depending on Western blotting conditions, GBP5 is sometimes observed as a doublet. This is likely due to cleavage of a predicted three amino acid propeptide sequence.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala561 of human GBP5 protein.	
<b>Background</b>	GBP5 (guanylate binding protein 5) is one of seven interferon-inducible GTPases in humans that have recently been shown to be involved in host defense against intracellular pathogens (1,2). Specifically, in response to intracellular bacteria or cell wall components, GBP5 acts as a tetramer to facilitate assembly of the NLRP3 inflammasome, leading to caspase-1 activation (2,3). In addition, GBP5 enables activation of the AIM2 inflammasome by promoting lysis of intracellular bacteria and release of pathogenic double-stranded DNA (4).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Kim, B.H. et al. (2011) <i>Science</i> 332, 717-21.</li> <li>2. Kim, B.H. et al. (2012) <i>Cell Host Microbe</i> 12, 432-44.</li> <li>3. Shenoy, A.R. et al. (2012) <i>Science</i> 336, 481-5.</li> <li>4. Meunier, E. et al. (2015) <i>Nat Immunol</i> 16, 476-84.</li> </ol>	
<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 BSA, 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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