

**RanBP9 (D8M8D) Rabbit mAb**

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80, 91	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q96S59	<b>Entrez-Gene Id:</b> 10048
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<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>	RanBP9 (D8M8D) Rabbit mAb recognizes endogenous levels of total RanBP9 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His490 of human RanBP9 protein.	
<b>Background</b>	RanBP9 (RanBPM) is a Ran binding protein ubiquitously expressed and highly conserved in different organisms. It is a scaffolding protein that was identified as an interacting protein of MET inducing Ras-Erk activation (1). Several domains and motifs regulate the nuclear and cytoplasmic localization of RanBP9 (2). Research studies indicate that RanBP9 might contribute to the pathogenesis of Alzheimer's Disease (AD). In addition to elevated expression levels in AD samples, this may involve interaction of RanBP9 with APP and BACE1 promoting endocytosis of APP and increased BACE1 mediated cleavage of APP to generate β-amyloid peptides (3).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Wang, D. et al. (2002) <i>J Biol Chem</i> 277, 36216-22.</li> <li>2. Salemi, L.M. et al. (2015) <i>PLoS One</i> 10, e0117655.</li> <li>3. Lakshmana, M.K. et al. (2009) <i>J Biol Chem</i> 284, 11863-72.</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 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>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat	
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