

## **TMP21 Antibody**



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

Applications: W	Reactivity: H M Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 19	Source/Isotype: Rabbit	UniProt ID: #P49755	Entrez-Gene Id: 10972
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TMP21 Antibody detects endogenous levels of total TMP21 protein.				
Species predicted to react based on 100% sequence homology		Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human TMP21. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		TMP21, a type I transmembrane protein, is a member of the p24 cargo protein family, which is highly enriched in the ER, the Golgi and coat protein (COP) I and II transport vesicles (1,2). TMP21 is involved in protein transport and vesicular targeting. In particular, TMP21 influences APP trafficking by stabilizing nascent APP. The absence of TMP21 leads to enhanced maturation and cell surface accumulation of APP (3). In addition, TMP21 is a non-essential component of the $\gamma$ -secretase complex with the potential to modulate $\gamma$ -secretase mediated cleavage and A $\beta$ production without having an effect on $\epsilon$ -secretase activity (4).				
Background References		<ol> <li>Blum, R. et al. (1996) J Biol Chem 271, 17183-9.</li> <li>Blum, R. et al. (1999) J Cell Sci 112 ( Pt 4), 537-48.</li> <li>Vetrivel, K.S. et al. (2007) Mol Neurodegener 2, 4.</li> <li>Chen, F. et al. (2006) Nature 440, 1208-12.</li> </ol>				
Species Reactivity		Species reactivity is determined by testing in at least one approved 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 Key		W: Western Blotting				
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Cross-Reactivity Key H: Human M: Mouse Mk: Monkey

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