

#3511 Store at -20°C

Phospho-Connexin 43 (Ser368) Antibody


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

Applications: WB	Reactivity: H M R Hm Mk Dg	Sensitivity: Endogenous	MW (kDa): 42, 44, 46	Source: Rabbit	UniProt ID: #P17302	Entrez-Gene Id: 2697
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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 / Sensitivity	Phospho-Connexin 43 (Ser368) Antibody detects endogenous levels of connexin 43 only when phosphorylated at serine 368. The antibody does not cross-react with other phosphorylated connexin family members.	
Species predicted to react based on 100% sequence homology:	Pig	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser368 of human connexin 43. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Connexin 43 (Cx43) is a member of the large family of gap junction proteins. Connexins assemble as a hexamer and are transported to the plasma membrane to create a hemichannel that can associate with hemichannels on nearby cells to create cell-to-cell channels. Clusters of these channels assemble to make gap junctions. Gap junction communication is important in development and regulation of cell growth. Phosphorylation of Cx43 is important in regulating assembly and function of gap junctions (1,2). Ser368 of Cx43 is phosphorylated by protein kinase C (PKC) after activation by phorbol esters, which decreases cell-to-cell communication (3). Src can interact with and phosphorylate Cx43 to alter gap junction communication (4,5).	
Background References	<ol style="list-style-type: none"> Musil, L.S. et al. (1990) <i>J Cell Biol</i> 111, 2077-88. Musil, L.S. and Goodenough, D.A. (1991) <i>J Cell Biol</i> 115, 1357-74. Lampe, P.D. et al. (2000) <i>J Cell Biol</i> 149, 1503-12. Giepmans, B.N. et al. (2001) <i>J Biol Chem</i> 276, 8544-9. Lin, R. et al. (2001) <i>J Cell Biol</i> 154, 815-27. 	

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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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