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Anti-Connexin 43 (Ser368) Antibody

Our Anti-Connexin 43 (Ser368) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutio
Catalog # AN1346

Product Information

Application	WB
Primary Accession	P08050
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43031

Additional Information

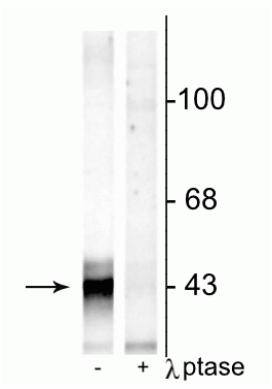
Gene ID	24392
Other Names	Connexin 43 antibody, Connexin-43 antibody, Cx 43 antibody, Cx43 antibody, CXA1_HUMAN antibody, DFNB38 antibody, Gap junction 43 kDa heart protein antibody, Gap junction alpha-1 protein antibody, Gap junction protein alpha 1 43kDa (connexin 43) antibody, Gap junction protein alpha 1 43kDa antibody, Gap junction protein alpha like antibody, GJA 1 antibody, Gja1 antibody, GJAL antibody, ODD antibody, ODDD antibody, ODOD antibody, SDTY3 antibody
Target/Specificity	Gap junctional intercellular communication is thought to play a key role in development and may also be involved in epilepsy (Aronica et al., 2001). Connexin43 forms gap-junctional channels and regulates the permeability of these gap junctions to small organic molecules. Permeability of connexin43 is known to be regulated by phosphorylation at Ser-368 by protein kinase C (Yogo et al., 2002; Bao et al., 2004a). Phosphorylation of Ser-368 by PKC induces a conformational change of connexin43 that results in a decrease in gap junction permeability (Bao et al., 2004b).
Dilution	WB~~1:1000
Format	Antigen Affinity Purified from Pooled Serum
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Connexin 43 (Ser368) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Gap junctional intercellular communication is thought to play a key role in development and may also be

involved in epilepsy (Aronica et al., 2001). Connexin43 forms gap-junctional channels and regulates the permeability of these gap junctions to small organic molecules. Permeability of connexin43 is known to be regulated by phosphorylation at Ser-368 by protein kinase C (Yogo et al., 2002; Bao et al., 2004a). Phosphorylation of Ser-368 by PKC induces a conformational change of connexin43 that results in a decrease in gap junction permeability (Bao et al., 2004b).

Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~43 kDa connexin43 phosphorylated at Ser368 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (λ-Ptase, 800 units/1mg protein for 30 min).