

Anti-Connexin 43 Antibody

Our Anti-Connexin 43 Antibody primary antibody from PhosphoSolutions is rabbit polyclonal. It detect
Catalog # AN1345

Product Information

Application	WB, IHC
Primary Accession	P08050
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43031

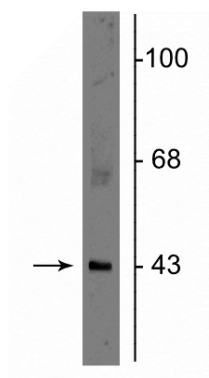
Additional Information

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 IHC~~1:100~500
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 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

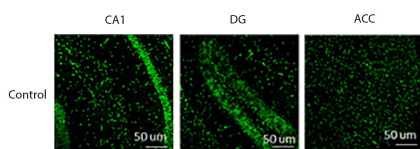
Background

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 cerebellar lysate showing specific immunolabeling of the ~43 kDa connexin43 protein.



Immunolabeling on astroglial in the CA1 and DG mouse hippocampus, and anterior cingulate cortex (ACC) specifically labeling Connexin43 (Cat no AN1345, green, 1:200). Image from publication. CC-BY-4.0 PMID: 37239279

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.