

Datasheet: AHP1157

Description:	RABBIT ANTI CONNEXIN 43 (C-TERMINAL)
Specificity:	CONNEXIN 43 (C-TERMINAL)
Other names:	GAP JUNCTION ALPHA-1 PROTEIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Sheep, Zebrafish, Human, Chicken, Mouse, Primate, Dog, Birds, Xenopus N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid

Antiserum Preparation Antisera to rat connexin 43 (CT) were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG was prepared from whole serum by affinity

chromatography.

Buffer Solution	10mM Hepes pH7.5 150mM NaCl
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Preservative Stabilisers	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
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Immunogen	Synthetic peptide corresponding to the C-terminal region of rat connexin 43 (CT).
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External Database Links	UniProt: P08050 Related reagents Entrez Gene: 24392 Gja1 Related reagents
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Synonyms	Cxn-43
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RRID	AB_808528
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Specificity	Rabbit anti Human Connexin 43 antibody recognizes rat connexin43, a ~43 kDa member of the alpha-type (group II) subfamily of the connexins. It is a component of gap junctions, the small channels linking the cytoplasm of adjacent cells and enabling signalling through the transfer of ions and metabolites. Phosphorylation of Connexin 43 at serine 368 regulates the permeability of the gap junction. Connexin 43 is the major protein of gap junctions in the heart, essential to synchronised contractions. It is also crucial in embryonic development and is associated with epilepsy.
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Western Blotting	AHP1157 detects a band of approximately 43kDa in rat cerebellar lysate.
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References	1. Bao, X. <i>et al.</i> (2004) Regulation of purified and reconstituted connexin 43 hemichannels by protein kinase C-mediated phosphorylation of Serine 368. J Biol Chem. 279 (19): 20058-66. 2. Aronica, E. <i>et al.</i> (2001) Expression of connexin 43 and connexin 32 gap-junction proteins in epilepsy-associated brain tumors and in the perilesional epileptic cortex. Acta Neuropathol. 101 (5): 449-59.
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch.
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Health And Safety	Material Safety Datasheet documentation #10088 available at:
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Information 10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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