



Qty: 50 µg/200 µl

Rabbit anti-Connexin29

Catalog No. 34-4200

Lot No. See product label

Rabbit anti-Connexin29 (Cx29)

FORM

This polyclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.01% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

PAD: ZMD.81

IMMUNOGEN

Synthetic peptide derived from the C-terminal sequence of mouse Cx29.

SPECIFICITY

This antibody reacts with mouse Cx29. Peptide inhibition studies were used to confirm the antibody's specificity.

REACTIVITY

Reactivity is confirmed with mouse brain or sciatic nerve homogenates. In Western blotting, two bands are usually observed. A band at ~29 kD is the connexin29 monomer, while a second band at ~58 kD corresponds to the Cx29 dimer.

Sample	Western Blotting	ELISA	Immuno-fluorescence
Human	ND	ND	ND
Mouse	+++	ND	+++
Immunogen	ND	ND	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable NA, Not determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 0.5-2 µg/ml
IF: 0.5-2 µg/ml

Note: Please contact Invitrogen Technical Service at 800-874-4494 (US only) or 650-871-4494 for more information regarding fixation conditions in immunofluorescence assays.

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI344200

(Rev 10/08) DCC-08-1089

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BACKGROUND

Gap junctions have important functions in the transmission of signals across synapses in the nervous system (3). Connexin29 is a gap junction protein of 258 amino acids encoded by a novel single copy mouse gene that shows 75% sequence identity to human connexin 30.2 (4). Connexin29 mRNA (4.4 kb) is highly abundant in mouse sciatic nerve and is less abundant in spinal cord and adult brain (4). Expression data suggest that the new connexin gene is active in myelin-forming glial cells (4).

REFERENCES

1. Balice-Gordon R J. et al. *J. Cell Biol.* 142:1095-1104 (1998).
2. Nagy et al., under preparation.
3. Rozental et al. *Brain Res Brain Res Rev.* 32: 11-15 (2000).
4. Sohl G et al. *Biol. Chem.* 382: 973-978 (2001).

RELATED PRODUCTS

<i>Product</i>	<i>Clone/PAD*</i>	<i>Cat. No.</i>
Mouse anti-Cx26	CX-1E8	33-5800
Rabbit anti-Cx-26	UM214	51-2800
Rabbit anti-Cx26	Z-Z8	71-0500
Mouse anti-Cx26	CX-12H10	13-8100
Mouse anti-Cx30	CX30-8E8	33-2500
Rabbit anti-Cx30	Z-PP9	71-2200
Mouse anti-Cx32	CX-2C2	13-8200
Rabbit anti-Cx32	Z-AA6	71-0600
Rabbit anti-Cx36	CY44	51-6300
Mouse anti-Cx43	CX-1B1	13-8300
Rabbit anti-Cx43	Z-JB1	71-0700
Mouse anti-Cx43	3D8A5	35-5000
Mouse anti-Cx50	C6	33-4300

For Cadherins, Claudins, Occludin, ZO-1 and Catenins: see www.invitrogen.com

Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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