



connexin 43 (233-382): sc-4383

BACKGROUND

The connexins are a group of gap junction proteins which form a hexamer to compose a connexon. Clusters of connexons form a gap junction through which low molecular weight proteins may diffuse from cell to cell. Several mammalian cells with malignant phenotypes exhibit decreased connexin expression and gap junction communication. It has also been shown that there is a decrease in gap junctional communication in src transformed cells. The decreased communication in these cells appears to be associated with tyrosine phosphorylation of Connexin 43. Connexins are also thought to be essential for the development of labor contractions. Connexin 43 expression is increased during delivery, whereas Connexin 26 expression decreases at the onset of labor. Mutations of the Connexin 32 gene have been shown to be the cause of Charcot-Marie-Tooth disease, which is an inherited demyelinating neuropathy.

REFERENCES

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SOURCE

connexin 43 (233-382) is expressed in *E. coli* as a 44 kDa tagged fusion protein corresponding to amino acids 233-382 of connexin 43 of human origin.

PRODUCT

connexin 43 (233-382) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 50 µg purified protein in PBS containing 5 mM DTT and 50% glycerol.

APPLICATIONS

connexin 43 (233-382) is suitable as a substrate for ERK 2: sc-4806, GSK-3b: sc-4800, Cdc2: sc-4816 and PKC a: sc-4820 and as a Western blotting control for sc-6560, sc-9059 and sc-13558.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.