



Rabbit Anti-Human Chondroitin Sulfate monoclonal antibody, clone KN21-24 (CABT-L909)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	NG2
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	KN21-24
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC, FC
Molecular Weight	251 kDa
Cellular Localization	Cell membrane, Apical cell membrane, Cell projection, Cell surface.
Positive Control	Human kidney tissue, rat brain tissue, mouse brain tissue.
Format	Liquid
Size	100 µl
Buffer	1xTBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	NG2 (also known as melanoma-associated chondroitin sulfate proteoglycan 4, MCSP, MCSPG, MSK16 and MEL-CSPG) stabilizes cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. NG2 may facilitate primary melanoma progression by enhancing the activation of key signaling pathways important for tumor invasion and growth. Threonine 2256 phosphorylation of rat NG2 (Threonine 2252 phosphorylation of human NG2) leads to redistribution of NG2 on the surface of astrocytomas, polarization of the cell and a significant increase in cell motility. NG2 acts as a co-receptor for spreading and focal contact formation in association with $\alpha 4 \beta 1$ integrin in malignant melanoma cells. NG2 is present on blood vessels throughout the rat embryo. Microvessels within the rat CNS express NG2 on endothelial cells, and outside the CNS, NG2 is present on smooth muscle cells. NG2 is a novel marker for epidermal stem cells that contributes to their patterned distribution by promoting stem cell clustering.
Keywords	4732461B14Rik;AN2;AN2 proteoglycan;Chondroitin sulfate proteoglycan 4 (melanoma-associated);Chondroitin sulfate proteoglycan 4;Chondroitin sulfate proteoglycan NG2;Cspg4;Cspg4 chondroitin sulfate proteoglycan 4;CSPG4_HUMAN;HMW-MAA;HSN tumor-specific antigen;Kiaa4232;MCSP;MCSPG;MEL-CSPG;Melanoma chondroitin sulfate proteoglycan;Melanoma-associated chondroitin sulfate proteoglycan;MELCSPG;MSK16;NG2 antibody