NG2 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 250	Source/Isotype: Rabbit	UniProt ID: #Q6UVK1	Entrez-Gene Id: 1464
	Application Western Blotting			Dilution 1:1000	
	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
sitivity	NG2 Antibody detects endogenous levels of total NG2 protein.				
	Mouse				
cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding His2260 of human NG2. Antibodies are purified by peptide affinity chromatography.				
	The chondroitin sulfate proteoglycan NG2 is a type I membrane protein expressed by subpopulations of glia including oligodendroglial precursor cells and a variety of tumor cells. Normal precursor cells and malignant tumor cells migrate and proliferate, but there is evidence that cells may not be able to engage in both activities at the same time. However, NG2 is involved in promoting both proliferation and motility (1). The extracellular domain of NG2 sequesters growth factors and binds to both growth factor receptors and extracellular matrix ligands such as fibronectin, collagens and laminin. The cytoplasmic domain is involved in activating Rac, Cdc42, and p130 Cas (2). PKCα phosphorylates NG2 at Thr2256, triggering the redistribution of NG2 from apical microprocesses to lamellipodia accompanied by enhanced cell motility (3). ERK phosphorylates NG2 at Thr2314, stimulating cell proliferation (4).				
eferences	1. Karram, K. et al. (2005) <i>J Anat</i> 207, 735-44. 2. Eisenmann, K.M. et al. (1999) <i>Nat Cell Biol</i> 1, 507-13. 3. Makagiansar, I.T. et al. (2004) <i>J Biol Chem</i> 279, 55262-70. 4. Makagiansar, I.T. et al. (2007) <i>J Cell Biol</i> 178, 155-65.				
		Application Western Blotting Supplied in 10 mM soc 20°C. Do not aliquot the NG2 Antibody detects Mouse Polyclonal antibodies His2260 of human NG The chondroitin sulfat of glia including oligor and malignant tumor engage in both activit and motility (1). The engate in social motion is three to sequence series and engage in both activities and motility (1). The engate in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is three to sequence series and engage in social motion is the sequence series and engage in social motion is three to sequence series and engage in social motion is the sequence series and engage in social motion is the sequence series and engage in social motion is the sequence series and engage in social motion is the sequence series and engage in social motion is the sequence series and engage in social motion is the sequence series and engage in sequence series and engage in social motion is the sequence series and engage in sequence sequence series and engage in sequence s	Application Western Blotting Supplied in 10 mM sodium HEPES (pH 7.5 20°C. Do not aliquot the antibody. NG2 Antibody detects endogenous levelst asequence Mouse Polyclonal antibodies are produced by im His2260 of human NG2. Antibodies are produced by implementation of glian including oligodendroglial precurs and malignant tumor cells migrate and pengage in both activities at the same time and motility (1). The extracellular matrix cytoplasmic domain is involved in activation of by enhanced cell motility (3). ERK phosph Polyclonal antibodies are produced by implementation of by enhanced cell motility (3). ERK phosph	Application Western Blotting Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg, 20°C. Do not aliquot the antibody. Sitivity NG2 Antibody detects endogenous levels of total NG2 protein. Mouse Polyclonal antibodies are produced by immunizing animals with His2260 of human NG2. Antibodies are purified by peptide affinit The chondroitin sulfate proteoglycan NG2 is a type I membrane of glia including oligodendroglial precursor cells and a variety of and malignant tumor cells migrate and proliferate, but there is engage in both activities at the same time. However, NG2 is involund motility (1). The extracellular domain of NG2 sequesters grow factor receptors and extracellular matrix ligands such as fibroned cytoplasmic domain is involved in activating Rac, Cdc42, and p13 Thr2256, triggering the redistribution of NG2 from apical microp by enhanced cell motility (3). ERK phosphorylates NG2 at Thr2314	Application Western Blotting Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% gi 20°C. Do not aliquot the antibody. Sitivity NG2 Antibody detects endogenous levels of total NG2 protein. Mouse Polyclonal antibodies are produced by immunizing animals with a synthetic peptide His2260 of human NG2. Antibodies are purified by peptide affinity chromatography. The chondroitin sulfate proteoglycan NG2 is a type I membrane protein expressed to figlia including oligodendroglial precursor cells and a variety of tumor cells. Normal and malignant tumor cells migrate and proliferate, but there is evidence that cells mengage in both activities at the same time. However, NG2 is involved in promoting by and motility (1). The extracellular domain of NG2 sequesters growth factors and bingator receptors and extracellular matrix ligands such as fibronectin, collagens and cytoplasmic domain is involved in activating Rac, Cdc42, and p130 Cas (2). PKCq photherences 1. Karram, K. et al. (2005) J Anat 207, 735-44.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human R: Rat

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