

bs-23788R**[Primary Antibody]****NG2 Rabbit pAb****Bioss**
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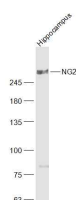
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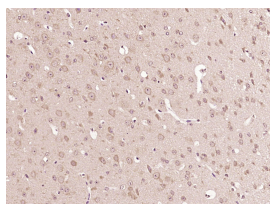
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— DATASHEET —

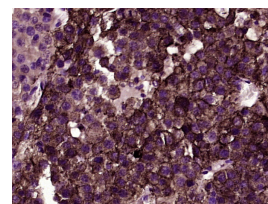
Host: Rabbit Clonality: Polyclonal GeneID: 1464 Target: NG2 Immunogen: KLH conjugated synthetic peptide derived from human NG2: 701-800/2322. < Extracellular > Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Proteoglycans (PGs) are a family of proteins composed of different polypeptide chains containing glycosaminoglycan (GAG) modifications. They vary in their cellular locations and have diverse structure and functions. NG2 is a proteoglycan found in the nervous system, comprising a large integral membrane PG with a core protein of 300 kDa and at least one covalently attached chondroitin sulfate (CS) GAG chain. In the CNS this protein is expressed mainly on the surfaces of developing and adult oligodendrocyte precursor cells, but is also associated with developing chondrocytes, cardiomyocytes, pericytes and several human tumours. NG2 also stimulates alpha-4, beta-1 integrin-mediated adhesion and spreading by recruiting and activating a signaling cascade through CDC42, ACK1 and BCAR1. May activate FAK and ERK1/ERK2 signaling cascades.	Isotype: IgG SWISS: Q6UVK1 Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse (predicted: Rat, Pig, Horse) Predicted MW.: 247 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: Hippocampus (Mouse) Lysate at 40 ug
Primary: Anti-NG2 (bs-23788R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 247 kD
Observed band size: 350 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NG2) Polyclonal Antibody, Unconjugated (bs-23788R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human melanoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NG2) Polyclonal Antibody, Unconjugated (bs-23788R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=3.558]** Wanqiong Yuan. et al. Single-dose local intraosseous injection of simvastatin suppresses breast cancer with tumor vascular normalization. Transl Oncol. 2020 Dec;13:100867 IHC ;Mouse. 32950929