

**bs-5829R****[ Primary Antibody ]****BioSS**  
**ANTIBODIES**

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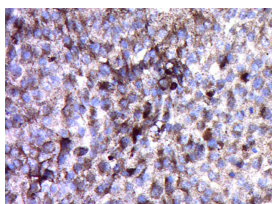
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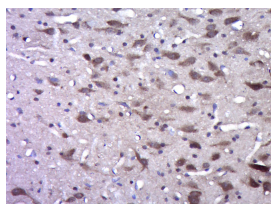
400-901-9800

**NG2 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Rat (predicted: Mouse, Rabbit, Pig, Cow, Dog, GuineaPig, Horse)  <b>Predicted MW.:</b> 248 kDa  <b>Subcellular Location:</b> Cell membrane ,Cytoplasm
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 1464	<b>SWISS:</b> Q6UVK1	
<b>Target:</b> NG2		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human NG2: 2211-2322/2322. < Cytoplasmic >		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> 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.		

**— VALIDATION IMAGES —**

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-5829R) 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 (Rat 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-5829R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.