

**bs-10744R****[ Primary Antibody ]****Robo3 Rabbit pAb****Bioss**  
**ANTIBODIES**

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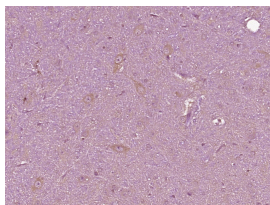
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —**

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|--|----------------------|---|
| <b>Host:</b> Rabbit  | <b>Isotype:</b> IgG  | <b>Applications:</b> IHC-P (1:100-500)                            |
| <b>Clonality:</b> Polyclonal   |                      | <b>IHC-F</b> (1:100-500)  |
| <b>GeneID:</b> 64221   | <b>SWISS:</b> Q96MS0 | <b>IF</b> (1:100-500)   |
| <b>Target:</b> Robo3   |                      | <b>Reactivity:</b> Rat (predicted: Human, Mouse, Pig, Dog, Horse) |
| <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Robo3: 251-350/1386. < Extracellular >   |                      |   |
| <b>Purification:</b> affinity purified by Protein A  |                      | <b>Predicted MW.:</b> 146 kDa                                     |
| <b>Concentration:</b> 1mg/ml   |                      | <b>Subcellular Location:</b> Cell membrane                        |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.   |                      |   |
| <b>Background:</b> This gene is a member of the Roundabout (ROBO) gene family that controls neurite outgrowth, growth cone guidance, and axon fasciculation. ROBO proteins are a subfamily of the immunoglobulin transmembrane receptor superfamily. SLIT proteins 1-3, a family of secreted chemorepellants, are ligands for ROBO proteins and SLIT/ROBO interactions regulate myogenesis, leukocyte migration, kidney morphogenesis, angiogenesis, and vasculogenesis in addition to neurogenesis. This gene, ROBO3, has a putative extracellular domain with five immunoglobulin (Ig)-like loops and three fibronectin (Fn) type III motifs, a transmembrane segment, and a cytoplasmic tail with three conserved signaling motifs: CC0, CC2, and CC3 (CC for conserved cytoplasmic). Unlike other ROBO family members, ROBO3 lacks motif CC1. The ROBO3 gene regulates axonal navigation at the ventral midline of the neural tube. In mouse, loss of Robo3 results in a complete failure of commissural axons to cross the midline throughout the spinal cord and the hindbrain. Mutations ROBO3 result in horizontal gaze palsy with progressive scoliosis (HGPPS); an autosomal recessive disorder characterized by congenital absence of horizontal gaze, progressive scoliosis, and failure of the corticospinal and somatosensory axon tracts to cross the midline in the medulla. Alternative transcript variants have been described but have not been experimentally validated. |                      |   |

**— VALIDATION IMAGES —**

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 (Robo3) Polyclonal Antibody, Unconjugated (bs-10744R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.