

**bs-24716R****[ Primary Antibody ]****KIF5B Rabbit pAb****Bioss**  
**ANTIBODIES**

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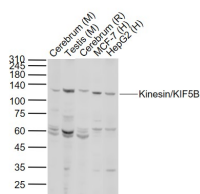
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 3799 <b>Target:</b> KIF5B <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human KIF5B: 1-100/963. <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> Structural proteins in Arabidopsis provide cellular stability, facilitate protein transportation within the cell and are essential for cell growth. Three types of molecular motors are involved in the organization, dynamics and transport processes associated with the cytoskeleton (1). They include myosin, which transports cargo along actin filaments, and kinesin and dynein, which transport cargo along microtubules (1,2). These proteins regulate many cellular functions, including cell division and expansion, cell-to-cell communication, membrane trafficking and morphogenesis (2). In addition, the dynamin-like proteins are GTP-binding proteins involved in vesicle trafficking (3). Extensin is a structural protein that may be involved in cell wall assembly, while expansin is a cell wall loosening protein that induces stress relaxation and extension of cell walls and may control organ size, morphology and abscission (4,5). Also, xyloglucan (XG), a major hemicellulose in plants, is modified by the fucosyltransferase, XG FTase, which adds a terminal fucosyl residue to XG (6).	<b>Isotype:</b> IgG <b>SWISS:</b> P33176 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Pig, Cow, Dog) <b>Predicted MW.:</b> 106 kDa <b>Subcellular Location:</b> Cytoplasm
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**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Cerebrum tissue lysates  
 Lane 2: Mouse Testis tissue lysates Lane 3: Rat Cerebrum tissue lysates Lane 4: Human MCF-7 cell lysates Lane 5: Human HepG2 cell lysates  
 Primary: Anti-Kinesin/KIF5B (bs-24716R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 106 kD Observed band size: 110 kD