

**bs-13640R****[ Primary Antibody ]****GRAP Rabbit pAb****BioSS**  
**ANTIBODIES**

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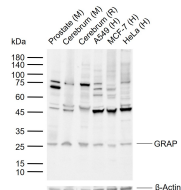
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 10750 <b>Target:</b> GRAP <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human GRAP: 51-150/217. <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> Many growth factors function by binding receptors with intrinsic tyrosine kinase activity. Signaling by such receptors involves a series of intermediates characterized by SH2 domains that bind tyrosine phosphorylated receptors by a direct interaction between the SH2 domain and specific receptor sequences. For instance, the GRB family of proteins lack a defined catalytic activity and are entirely composed of SH2 and SH3 domains. Members include GRB2, GRB7, GRB10 (also referred to as GRB-IR), GRB14 and Grap (for GRB2-related adapter protein). While GRB10 and GRB14 are most closely related to GRB7, Grap shares the highest degree of homology with GRB2 exhibiting 59% sequence identity with GRB2. The Grap SH2 domain is capable of binding to the activated stem cell factor receptor, c-Kit and the erythropoietin receptor (EpoR). Grap also associates with the Ras guanine nucleotide exchange factor Sos 1 via its amino terminal SH3 domain.	<b>Isotype:</b> IgG <b>SWISS:</b> Q13588 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Cow, Horse) <b>Predicted MW.:</b> 25 kDa <b>Subcellular Location:</b> Cytoplasm
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**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Prostate tissue lysates  
Lane 2: Mouse Cerebrum tissue lysates Lane 3:  
Rat Cerebrum tissue lysates Lane 4: Human A549  
cell lysates Lane 5: Human MCF-7 cell lysates  
Lane 6: Human HeLa cell lysates Primary: Anti-  
GRAP (bs-13640R) at 1/1000 dilution Secondary:  
IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
dilution Predicted band size: 25 kDa Observed  
band size: 25 kDa