

**bs-10955R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

www.bioss.com.cn

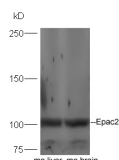
sales@bioss.com.cn

techsupport@bioss.com.cn

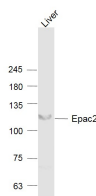
400-901-9800

**Epac2 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Human, Mouse, Rat (predicted: Pig, Sheep, Cow, Dog, Horse)
<b>GeneID:</b> 11069	<b>SWISS:</b> Q8WZA2	<b>Predicted MW.:</b> 116 kDa
<b>Target:</b> Epac2		<b>Subcellular Location:</b> Cell membrane ,Cytoplasm
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Epac2: 151-250/1011.		
<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> 3',5' cyclic adenosine monophosphate (cAMP)-regulated guanine nucleotide exchange factors Epac1 (cAMP-GEFI) and Epac2 (cAMP-GEFII) activate the ras family GTPases Rap1 and Rap2 by promoting GTP binding in a cAMP-dependent manner (1,2). Eukaryotic cAMP is a second messenger that induces physiological responses such as gene expression, growth, differentiation, secretion and neurotransmission (3). Human EPAC2 contains at least 31 exons and maps to chromosome 2q31 (4). The 4.4-kb Epac2 transcript is prominent in brain and adrenal gland (5,6). Within the brain, expression is strong in cortex, occipital pole, frontal lobe, temporal lobe, amygdala, putamen, hippocampus and cerebellum (5,6).		

**— VALIDATION IMAGES —**

Protein: liver(mouse) lysate at 40ug;  
brain(mouse) lysate at 40ug; Primary: rabbit  
Anti-Epac2 (bs-10955R) at 1:300; Secondary: HRP  
conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP)  
at 1: 5000; Predicted band size: 116 kD Observed  
band size: 116 kD



Sample: Liver (Mouse) Lysate at 40 ug Primary:  
Anti-aEpac2 (bs-10955R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 116 kD  
Observed band size: 116 kD