

**bs-18545R****[ Primary Antibody ]****BioSS**  
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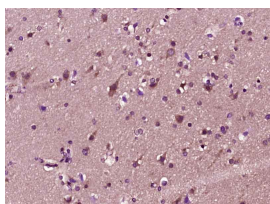
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**MACF1/ACF7 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 23499		
<b>Target:</b> MACF1/ACF7		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MACF1/ACF7: 1-100/7388.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Reactivity:</b> Human (predicted: Mouse, Rat, Sheep, Cow, Chicken)
<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>Predicted MW.:</b> 839 kDa
<b>Background:</b> Microtubule-actin crosslinking factor 1 (MACF1/ACF7) belongs to spectraplakins family of proteins which also includes mammalian Bpag1/dystonin, Drosophila Short Stop (Shot) and Caenorhabditis elegans Vab-10. These are large actin-microtubule linker molecules that are essential for various biological processes such as neuronal degeneration, wound healing, gastrulation. MACF1, located on mouse chromosome 4D2.2, was found to play an important role during neurogenesis- it was shown that MACF1 regulates the organization of neuronal microtubules which is essential for axon extension. Furthermore, MACF1 is required in controlling focal adhesion assembly and dynamics. MACF1 behaves as an actin-regulated ATPase and it has the ability to target microtubules that track along F-actin to focal adhesions. MACF1 was also implicated in regulating filopodia formation.		<b>Subcellular Location:</b> Cytoplasm

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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 (MACF1) Polyclonal Antibody, Unconjugated (bs-18545R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=13.3]** Suryaji Patil. et al. SDSSD peptide modified polyvinylamine — A novel bone-targeting RNA delivery system. CHEM ENG J. 2024 Oct;498:155188 IHC ;Mouse. 10.1016/j.cej.2024.155188

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