

**bs-0505R****[ Primary Antibody ]****Sodium hydrogen exchanger 1 Rabbit pAb****BioSS**  
**ANTIBODIES**

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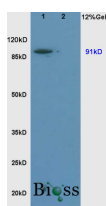
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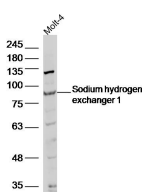
400-901-9800

**— DATASHEET —**

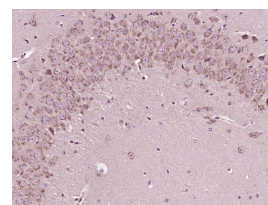
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 6548	<b>SWISS:</b> P19634	
<b>Target:</b> Sodium hydrogen exchanger 1		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human NHE1: 470-550/815.		
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)
<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> This gene encodes a Na <sup>+</sup> /H <sup>+</sup> antiporter that is a member of the solute carrier family 9. The encoded protein is a plasma membrane transporter that is expressed in the kidney and intestine. This protein plays a central role in regulating pH homeostasis, cell migration and cell volume. This protein may also be involved in tumor growth. [provided by RefSeq, Sep 2011]		<b>Predicted MW.:</b> 91 kDa  <b>Subcellular Location:</b> Cell membrane

**— VALIDATION IMAGES —**

Sample: Brain(Rat) lysate at 30ug; Liver(Rat) lysate at 30ug; Primary: Anti-NHE1 (bs-0505R) at 1:200 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 dilution; Predicted band size : 91kD Observed band size : 91kD We are unsure as to the identity of these extra bands



Sample: molt-4(human)cell Lysate at 40 ug  
Primary: Anti- Sodium hydrogen exchanger 1 (bs-0505R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 91kD Observed band size: 91 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (Sodium hydrogen exchanger 1) Polyclonal Antibody, Unconjugated (bs-0505R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=7.675]** Ya-Ling Yin. et al. Citronellal Attenuates Oxidative Stress&ndash;Induced Mitochondrial Damage through TRPM2/NHE1 Pathway and Effectively Inhibits Endothelial Dysfunction in Type 2 Diabetes Mellitus. ANTIOXIDANTS-BASEL. 2022 Nov;11(11):2241 IHC,IF ;Rat, Human. 36421426
- **[IF=5.714]** Yaling Yin. et al. PAE ameliorates doxorubicin-induced cardiotoxicity via suppressing NHE1 phosphorylation and stimulating PI3K/AKT phosphorylation. INT IMMUNOPHARMACOL. 2022 Dec;113:109274 IHC ;Rat. 36252472