

**bs-5973R****[ Primary Antibody ]****SIRT7 Rabbit pAb****Bioss**  
**ANTIBODIES**

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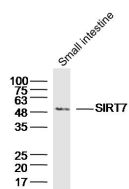
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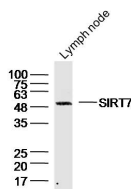
400-901-9800

**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 51547**SWISS:** Q9NRC8**Target:** SIRT7**Immunogen:** KLH conjugated synthetic peptide derived from human SIRT7: 231-330/400.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

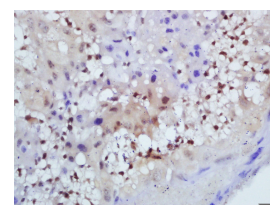
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** SIRT7 is a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class IV of the sirtuin family.**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**Reactivity:** Mouse (predicted: Human, Rat, Pig, Chicken, Dog)**Predicted MW.:** 45 kDa**Subcellular Location:** Cytoplasm ,Nucleus**VALIDATION IMAGES**

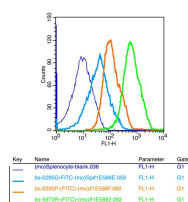
Sample: Small intestine (Mouse) Lysate at 40 µg  
 Primary: Anti-SIRT7 (bs-5973R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 45 kD  
 Observed band size: 50 kD



Sample: Lymph node (Mouse) Lysate at 40 µg  
 Primary: Anti-SIRT7 (bs-5973R) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 45 kD  
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Tissue/cell: mouse placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-SIRT7 Polyclonal Antibody, Unconjugated (bs-5973R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Blank control: mouse splenocytes (blue) Isotype  
 Control Antibody: Rabbit IgG (orange) ;  
 Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue), Dilution: 1:100 in 1 X PBS

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

containing 0.5% BSA ; Primary Antibody Dilution:  
1µl in 100 µL 1X PBS containing 0.5% BSA(green).

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## — SELECTED CITATIONS —

- **[IF=3.06]** Wronska, A., et al. "Age-Related Changes in Sirtuin 7 Expression in Calorie-Restricted and Refed Rats." Gerontology (2015). WB ;="". 26595207
- **[IF=2.65]** Deng Disi. et al. Protective Effect of XinJiaCongRongTuSiZiWan on the Reproductive Toxicity of Female Rats Induced by Triptolide. EVID-BASED COMPL ALT. 2022;2022:3642349 IHC ;Rat. 35707471
- **[IF=1.11]** Takumida, Masaya, Hiroshi Takumida, and Matti Anniko. "Localization of sirtuins in the mouse inner ear." Acta Oto-Laryngologica 0 (2014): 1-8. IHC ;="Mouse". 24460154