

**bs-4200R****[ Primary Antibody ]**

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## Selenium Binding Protein 1 Rabbit pAb

### DATASHEET

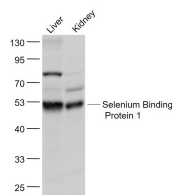
**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 8991**SWISS:** Q13228**Target:** Selenium Binding Protein 1**Immunogen:** KLH conjugated synthetic peptide derived from human SBP1/Selenium Binding Protein 1: 401-472/472.**Purification:** affinity purified by Protein A**Concentration:** 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.

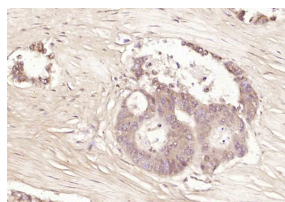
**Background:** Selenium is an essential trace element that confers tolerance to toxicity arising through exposure to heavy metals or other reactive xenobiotics. Selenium exhibits potent anticarcinogenic properties, and deficiency of selenium may cause certain neurologic diseases. Both effects are attributed to selenium-binding proteins. Selenium binding protein 1 is down-regulated in lung adenocarcinoma, colorectal cancer and ovarian cancer. It is two-fold upregulated in the brains of patients suffering from schizophrenia, and is therefore a biomarker for this disease.

**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (2ug/Test)**Reactivity:** Human, Mouse, Rat  
(predicted: Rabbit, Cow, Dog)**Predicted MW.:** 52 kDa**Subcellular Location:** Cell membrane ,Cytoplasm ,Nucleus

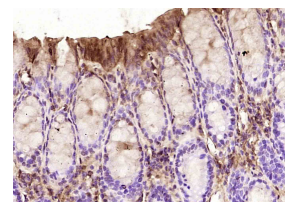
### VALIDATION IMAGES



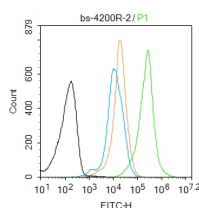
Sample: Liver (Mouse) Lysate at 40 ug Kidney (Mouse) Lysate at 40 ug Primary: Anti- Selenium Binding Protein 1 (bs-4200R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



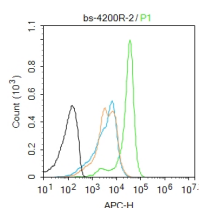
Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Selenium Binding Protein 1) Polyclonal Antibody, Unconjugated (bs-4200R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse colon); 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 (GDNF) Polyclonal Antibody, Unconjugated (bs-1024R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-Selenium Binding Protein 1 antibody (bs-4200R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat



Blank control: Mouse spleen. Primary Antibody (green line): Rabbit Anti-Selenium Binding Protein 1 antibody (bs-4200R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat

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

anti-rabbit IgG-AF488R Dilution: 1µg /test.  
Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

anti-rabbit IgG-AF647 Dilution: 1µg /test.  
Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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## — SELECTED CITATIONS —

- **[IF=6.107]** Xiao-Hu Zhao. et al. Integrative analysis reveals marker genes for intestinal mucosa barrier repairing in clinical patients. ISCIENCE. 2023 May;;106831 WB ;Human. 37250791