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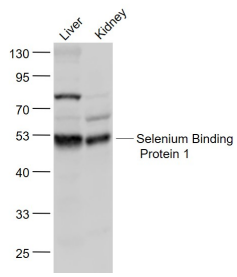
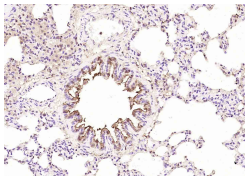
Selenium Binding Protein 1 Rabbit pAb

Catalog Number:	bs-4200R
Target Protein:	Selenium Binding Protein 1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
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
Entrez Gene:	8991
Swiss Prot:	Q13228
Source:	KLH conjugated synthetic peptide derived from human SBP1/Selenium Binding Protein 1: 401-472/472.
Purification:	affinity purified by Protein A
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 cander and ovarian cancer. It is two-fold upregulated in the brains of patients suffering from schizophrenia, and is therefore a biomarker for this disease.

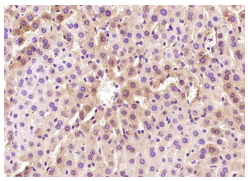
VALIDATION IMAGES



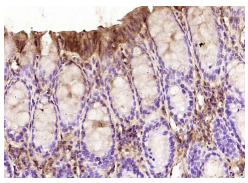
Sample: Liver (Mouse) Lysate at 40 ug Kidney (Mouse) Lysate at 40 ug Primary: Anti- Selenium Binding Protein 1 (bs-4200R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



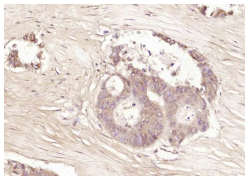
Paraformaldehyde-fixed, paraffin embedded (rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Selenium Binding Protein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



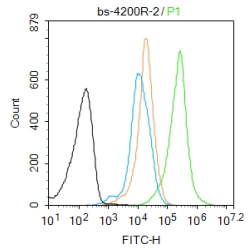
Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Selenium Binding Protein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



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) instructionsand DAB staining.



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

PRODUCT SPECIFIC PUBLICATIONS

[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