

Basic Information

Product Name	Anti-FPN1/SLC40A1 Antibody	
Gene Name	SLC40A1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human SLC40A1 recombinant protein (Position: M1-V571).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	70 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunofluorescence (IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Ferroportin-1, also known as solute carrier family 40 member 1 (SLC40A1) or iron-regulated transporter 1 (IREG1), is a protein that in humans is encoded by the SLC40A1 gene, and is part of the Ferroportin (Fpn) Family.

Reference

Anti-FPN1/SLC40A1 Antibody被引用在2文献中。

Selected Validation Data

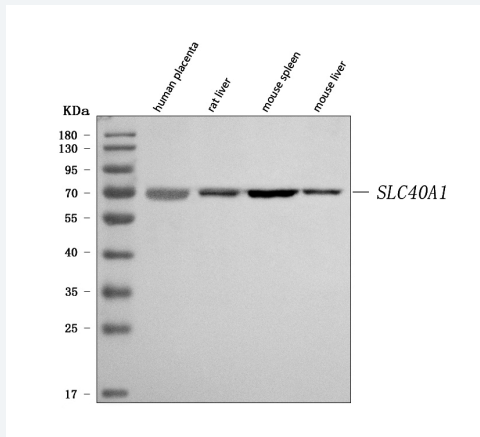


Figure 1. Western blot analysis of anti- SLC40A1 antibody (A01953-2). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

Lane 2: rat liver tissue lysates,

Lane 3: mouse spleen tissue lysates,

Lane 4: mouse liver tissue lysates.

Use rabbit anti- SLC40A1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for SLC40A1 at approximately 70KD. The expected band size for SLC40A1 is at 63KD.

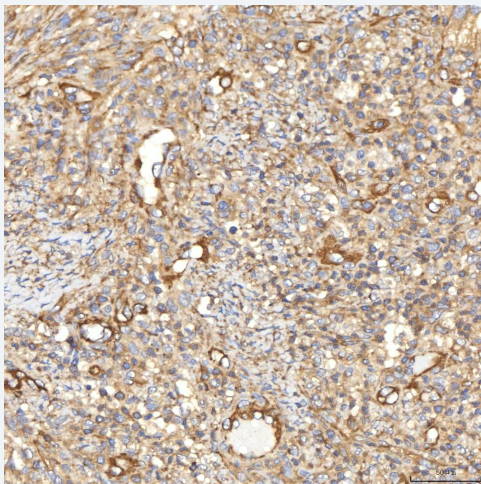


Figure 2. IHC analysis of FPN1/SLC40A1 using anti-FPN1/SLC40A1 antibody (A01953-2).

FPN1/SLC40A1 was detected in a paraffin-embedded section of human larynx squamous cell carcinoma tissue. The tissue section was incubated with rabbit anti-FPN1/SLC40A1 Antibody (A01953-2) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

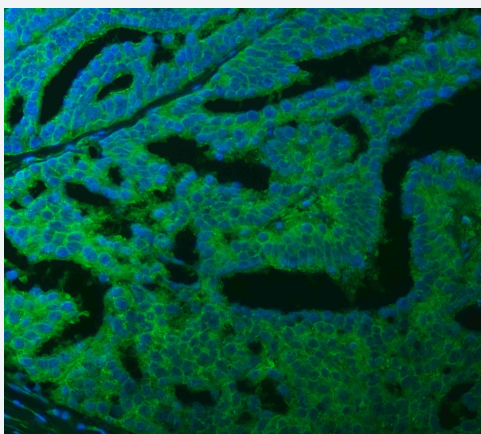


Figure 7. IF analysis of SLC40A1 using anti-SLC40A1 antibody (A01953-2).

SLC40A1 was detected in a paraffin-embedded section of human ovarian cancer tissue. FITC Conjugated AffiniPure Goat Anti-mouse IgG (H+L) Secondary Antibody (green)(Catalog#BA1101) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

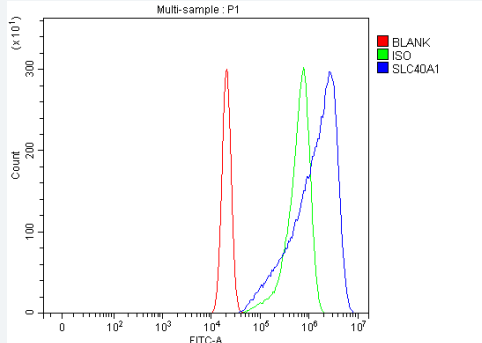


Figure 8. Flow Cytometry analysis of U2OS cells using anti-FPN1/SLC40A1 antibody (A01953-2).

Overlay histogram showing U2OS cells stained with A01953-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FPN1/SLC40A1 Antibody (A01953-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.