

Product Datasheet

SLC7A5/LAT1 Antibody (BU53) - BSA Free NBP2-50465

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-50465

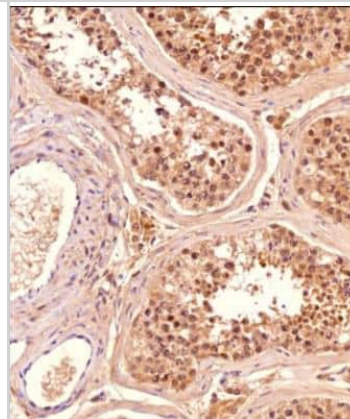
SLC7A5/LAT1 Antibody (BU53) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BU53
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse SLC7A5/LAT1 Antibody (BU53) - BSA Free (NBP2-50465) is a monoclonal antibody validated for use in IHC and Flow. Anti-SLC7A5/LAT1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	8140
Gene Symbol	SLC7A5
Species	Human
Immunogen	Plasma cell line 8226
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunohistochemistry, CyTOF-ready
Recommended Dilutions	Flow Cytometry 1 - 2 ug/ml, Immunohistochemistry 1:100 - 1:300, Immunohistochemistry-Paraffin 1:100 - 1:300, Flow (Cell Surface) 1 - 2 ug/ml, CyTOF-ready
Application Notes	This antibody is Cytof ready.

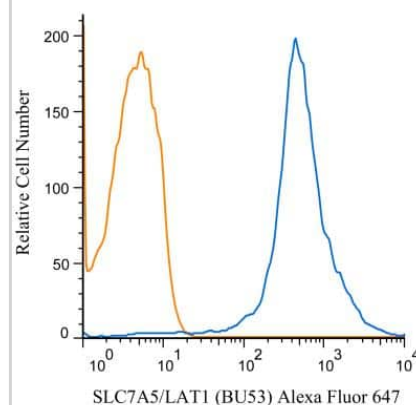


Images

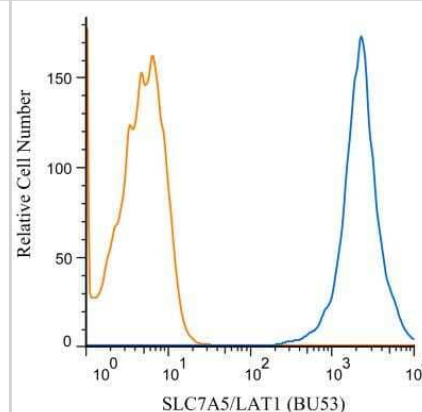
Immunohistochemistry-Paraffin: SLC7A5/LAT1 Antibody (BU53) [NBP2-50465] - Analysis of a FFPE tissue section of human testis using 1:200 dilution of SLC7A5/LAT1 (BU53) antibody. The staining was developed using HRP labeled anti-rabbit secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.



Flow (Cell Surface): SLC7A5/LAT1 Antibody (BU53) [NBP2-50465] - A cell surface stain was performed on Raji cells with SLC7A5 (BU53) antibody NBP2-50465AF647 (blue) along with a matched isotype control NB600-986AF647 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at RT. Both antibodies were conjugated to Alexa Fluor 647.



Flow (Cell Surface): SLC7A5/LAT1 Antibody (BU53) [NBP2-50465] - A cell surface stain was performed on Raji cells with SLC7A5 (BU53) antibody NBP2-50465 (blue) along with a matched isotype control NB600-986 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at RT, followed by mouse F(ab)₂ IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).



Publications

Kawasaki Y, Suzuki H, Miura M et al. LAT1 is associated with poor prognosis and radioresistance in head and neck squamous cell carcinoma *Oncology letters* 2023-04-01 [PMID: 36970606] (Flow Cytometry, Human)

Liu YH, Li YL, Shen HT et al. L-Type Amino Acid Transporter 1 Regulates Cancer Stemness and the Expression of Programmed Cell Death 1 Ligand 1 in Lung Cancer Cells *Int J Mol Sci* 2021-10-11 [PMID: 34681614] (FLOW, Human)

Tan SY, Kelkar Y, Hadjipanayis A et al. Metformin and 2-Deoxyglucose Collaboratively Suppress Human CD4⁺ T Cell Effector Functions and Activation-Induced Metabolic Reprogramming *J. Immunol.* 2020-07-08 [PMID: 32641388] (Human)

Details:

Citation using the Alexa Fluor 647 format of this antibody.

Procedures

Immunohistochemistry-Paraffin Protocol for SLC7A5/LAT1 Antibody (NBP2-50465)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer all the time).

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.





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Products Related to NBP2-50465

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP2-33662PEP	SLC7A5/LAT1 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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