

# Product Datasheet

## SLC7A5/LAT1 Antibody - BSA Free NBP3-09988-100ul

Unit Size: 100 ul

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

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**NBP3-09988-100ul**

SLC7A5/LAT1 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Purity	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	47 kDa

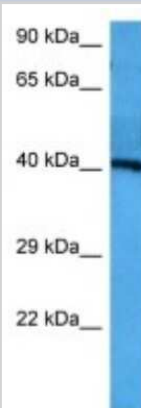
Product Description	
Description	Novus Biologicals Rabbit SLC7A5/LAT1 Antibody - BSA Free (NBP3-09988) is a polyclonal antibody validated for use in WB. Anti-SLC7A5/LAT1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8140
Gene Symbol	SLC7A5
Species	Mouse
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of mouse SLC7A5/LAT1 (NP_003477.4). Peptide sequence IAVSFWKTPVECGIGFTIILSGLPVYFFGVWWKNKPKWLLQGIFSTTVLC

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1.0 ug/ml



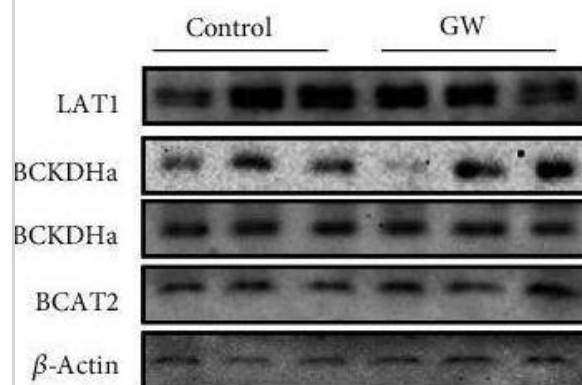
## Images

Western Blot: SLC7A5/LAT1 Antibody [NBP3-09988] - Western blot analysis of SLC7A5/LAT1 in Mouse Brain lysates. Antibody dilution at 1.0ug/ml



Effect of GW501516 on BCAA transport and catabolic enzymes. (a and b) Effect of treatment with GW501516 (GW) at 1  $\mu$ M for 24 hours on (a) absolute media BCAA content or (b) control mean-normalized (within each experiment) media BCAA content following 24-hour treatment. (c) Effect of GW at 1  $\mu$ M for up to 24 hours on myotube mRNA expression of branched-chain aminotransferase 2 (Bcat2), branched-chain alpha-keto acid dehydrogenase (Bckdha), and 3-hydroxyisobutyrate dehydrogenase (Hibadh). (d) Effect of GW at 1  $\mu$ M for 24 hours on myotube protein expression of large amino acid transporter 1 (LAT1), pBCKDHa (normalized to total BCKDHa), BCKDHa, and BCAT2. Notes: □ indicates  $p \leq 0.05$  between groups. Time course gene expression was analyzed using one-way ANOVA with Dunnett's correction for multiple comparisons. Target gene expression was normalized to tata binding protein (Tbp) using three replicates per group across two independent experiments with  $n = 5-6$  for the final analysis. Protein expression and BCAA media content were analyzed using student's t-test. Western blots were performed using three replicates per group across two independent experiments with  $n = 6$  for the final analysis. BCAA media content was performed using three replicates per group across two independent experiments with  $n = 6$  for the final analysis with each analyte measured in triplicate. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37325367>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

(b)



## Publications

Rivera CN, Hinkle JS, Watne RM et al. PPAR $\alpha$  Agonism with GW501516 Increases Myotube PGC-1 $\alpha$  Content and Reduces BCAA Media Content Independent of Changes in BCAA Catabolic Enzyme Expression PPAR research 2023-06-06 [PMID: 37325367] (Western Blot, Mouse)

Rivera CN, Watne RM, Brown ZA et al. Effect of AMPK activation and glucose availability on myotube LAT1 expression and BCAA utilization Amino acids 2022-12-22 [PMID: 36547760]

Rivera CN, Watne RM, Brown ZA et al. Effect of AMPK activation and glucose availability on myotube LAT1 expression and BCAA utilization Amino acids 2022-12-22 [PMID: 36547760]



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### **Products Related to NBP3-09988-100ul**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-33662PEP	SLC7A5/LAT1 Recombinant Protein Antigen

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### **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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