

LAT1 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 39	Source/Isotype: Rabbit	UniProt ID: #Q01650	Entrez-Gene Id: 8140
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		LAT1 Antibody detects endogenous levels of total LAT1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the amino terminus of human LAT1 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		L-type amino acid trans high-affinity neutral transcodium independent macids (3). LAT1 also regu (SLC1A5) (2,4-6). Transpormal fetal developme amino acids across the breast cancer, lung canon-small cell lung cano biomarker of high gradgrowth in several tumos	nsporter of larger anner (1-2) and so alates amino acid ort of thyroid hor ent (7). LAT1 prom blood brain barric er, prostate canco er with lymph no e malignancy in p	amino acids. It facilitate electively transports D-al exchange in conjunction mones across the placer otes neuronal cell prolife er (8). LAT1 is upregulate er, and gliomas (9,10). Hi de metastases (9,11,12).	es the cellular amin nd L-isomers of sman with solute carrier nta is established vi eration by regulatir nd in various cancer gh expression of LA Increased LAT1 ex	o acid uptake in a all neutral amino family 1 member 5 a LAT1 during the transport of types, including AT1 is detected in pression is a novel
Background R	eferences	 Mastroberardino, L. et al. (1998) <i>Nature</i> 395, 288-91. Kanai, Y. et al. (1998) <i>J Biol Chem</i> 273, 23629-32. Torrents, D. et al. (1998) <i>J Biol Chem</i> 273, 32437-45. Meier, C. et al. (2002) <i>EMBO J</i> 21, 580-9. Yanagida, O. et al. (2001) <i>Biochim Biophys Acta</i> 1514, 291-302. Nicklin, P. et al. (2009) <i>Cell</i> 136, 521-34. Ritchie, J.W. and Taylor, P.M. (2001) <i>Biochem J</i> 356, 719-25. Verrey, F. (2003) <i>Pflugers Arch</i> 445, 529-33. Kaira, K. et al. (2009) <i>Ann Surg Oncol</i> 16, 3473-81. Kobayashi, K. et al. (2008) <i>Neurosurgery</i> 62, 493-503; discussion 503-4. Imai, H. et al. (2009) <i>Histopathology</i> 54, 804-13. Sakata, T. et al. (2009) <i>Pathol Int</i> 59, 7-18. Shennan, D.B. and Thomson, J. (2008) <i>Oncol Rep</i> 20, 885-9. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.