

anti-Lat 2 / Slc 7 a 8

affinity purified rabbit antibody

Lot: IG1004-689

Data Sheet: 20180105



immunoGlobe
Antikörpertechnik GmbH

Antibody preparation and storage

100 µg of antibody (500 µg/ml in PBS, containing 1 mg/ml BSA and 0.02% [w/v] NaN₃) affinity purified on the peptide antigen. For repeated use store at 4°C (short term), stable for one year from date of shipment when stored at -20°C.

Antigen

Synthetic peptide derived from mouse Lat 2 sequence (Q9QXW9).

Species cross-reactivity

Mouse, rat, not suitable for human, others not tested

Specificity

Lat 2 (synonyms: SLC7A8, Solute carrier family 7 member 8, hLAT2, L-type amino acid transporter small subunit 2). The antibody detects a ~ 50 kDa Lat 2 band in wild type mouse brain, kidney, jejunum, ileum, and other tissues, which is absent in knock-out animals. In some tissues the antibody detects an additional unknown 38 kDa band [1].

Applications

Western (immuno) blotting (dilution 1:1,000; 0.5 µg/ml).

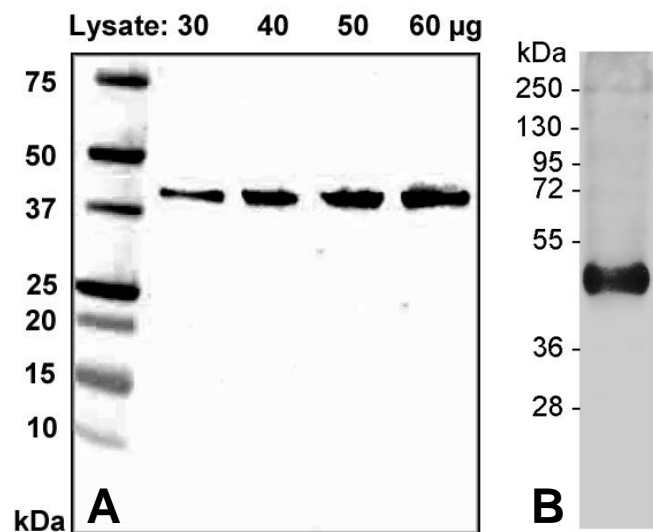
Immunohistochemistry of formaldehyde fixed cells (dilution 1:250; 2 µg/ml).

All dilutions refer to the analysis of cells and tissues with intermediate to high levels of Lat 2 expression and must be viewed as approximate. The antibody should be titrated for each individual application.

Western Blot

A. Western blot analysis of rat placental lysate with rabbit anti-Lat 2 antibody (1:1,000 dilution; o/n @ 4°C).
[Courtesy of Dr J. Glazier, University of Manchester, UK]

B. Western blot analysis of mouse kidney extract with rabbit anti-Lat 2 antibody (1:800 dilution)



References

(*: papers referencing the anti-Lat 2 antibody)

- * [1] Braun, D. *et al.* Aminoaciduria, but normal thyroid hormone levels and signalling, in mice lacking the amino acid and thyroid hormone transporter Slc7a8. *Biochem. J.* **439**, 249–255 (2011).
- * [2] Wirth, E. K. *et al.* Neuronal 3',3,5-triiodothyronine (T3) uptake and behavioral phenotype of mice deficient in Mct8, the neuronal T3 transporter mutated in Allan-Herndon-Dudley syndrome. *J. Neurosci.* **29**, 9439–9449 (2009).
- * [3] Hinz, K. M. *et al.* Structural insights into thyroid hormone transport mechanisms of the L-type amino acid transporter 2. *Mol. Endocrinol.* **29**, 933-42. (2015).

for research use only — not for human, in vivo,
diagnostic, therapeutic or other uses