# abcam

## Product datasheet

## Anti-SLC7A5/LAT1 antibody ab99419

1 Abreviews 1 References 画像数 1

#### 製品の概要

製品名 Anti-SLC7A5/LAT1 antibody

製品の詳細 Goat polyclonal to SLC7A5/LAT1

由来種 Goat

アプリケーション **適用あり**: WB

種交差性 交差種: Human

交差が予測される動物種: Dog 🔷

免疫原 Synthetic peptide corresponding to Human SLC7A5/LAT1 aa 400-500 (internal sequence).

Database link: NP\_003477.4

Run BLAST with
Run BLAST with

ポジティブ・コントロール

Human Spleen lysates.

特記事項

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

## 製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

**バッファー** pH: 7.30

Preservative: 0.02% Sodium azide

Constituents: 0.5% BSA, Tris buffered saline

精製度 Immunogen affinity purified

特記事項(精製) ab99419 was purified from goat serum by ammonium sulphate precipitation followed by antigen

affinity chromatography using the immunizing peptide.

**ポリ/モノ** ポリクローナル

アイソタイプ lgG

1

**The Abpromise guarantee** <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab99419の使用に適用されますアプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 3 μg/ml. Predicted molecular weight: 55 kDa.  1 hour primary incubation is recommended for this product.

## ターゲット情報

#### 機能

Sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Involved in cellular amino acid uptake. Acts as an amino acid exchanger. Involved in the transport of L-DOPA across the blood-brain barrier, and that of thyroid hormones triiodothyronine (T3) and thyroxine (T4) across the cell membrane in tissues such as placenta. Plays a role in neuronal cell proliferation (neurogenesis) in brain. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. May play an important role in high-grade gliomas. Mediates blood-to-retina L-leucine transport across the inner blood-retinal barrier which in turn may play a key role in maintaining large neutral amino acids as well as neurotransmitters in the neural retina. Acts as the major transporter of tyrosine in fibroblasts.

## 組織特異性

Expressed abundantly in adult lung, liver, brain, skeletal muscle, placenta, bone marrow, testis, resting lymphocytes and monocytes, and in fetal liver. Weaker expression in thymus, cornea, retina, peripheral leukocytes, spleen, kidney, colon and lymph node. During gestation, expression in the placenta was significantly stronger at full-term than at the mid-trimester stage. Also expressed in all human tumor cell lines tested and in the astrocytic process of primary astrocytic gliomas. Expressed in retinal endothelial cells and in the intestinal epithelial cell line Caco-2.

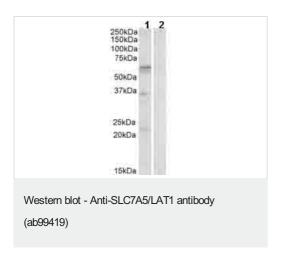
#### 配列類似性

Belongs to the amino acid-polyamine-organocation (APC) superfamily. L-type amino acid transporter (LAT) (TC 2.A.3.8) family.

## 細胞内局在

Cytoplasm > cytosol. Apical cell membrane. Located to the plasma membrane by SLC3A2/4F2hc. Localized to the apical membrane of placental syncytiophoblastic cells. Expressed in both luminal and abluminal membranes of brain capillary endothelial cells.

### 画像



All lanes: Anti-SLC7A5/LAT1 antibody (ab99419) at 0.3 µg

Lane 1: Human Spleen lysate

Lane 2: Human Spleen lysate with immunizing peptide

Lysates/proteins at 35 µg per lane.

Predicted band size: 55 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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