

SLC7A11 Antibody

Catalog No: #43437

Package Size: #43437 100ul

Description

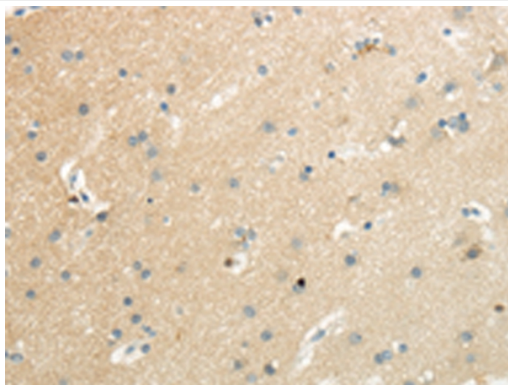
Product Name	SLC7A11 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total SLC7A11 protein.
Immunogen Description	Synthetic peptide of human SLC7A11
Conjugates	Unconjugated
Target Name	SLC7A11
Other Names	xCT; CCB1
Accession No.	Swiss-Prot#: Q9UPY5Gene ID: 23657
Calculated MW	55kd. 35kd
Concentration	2.3mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

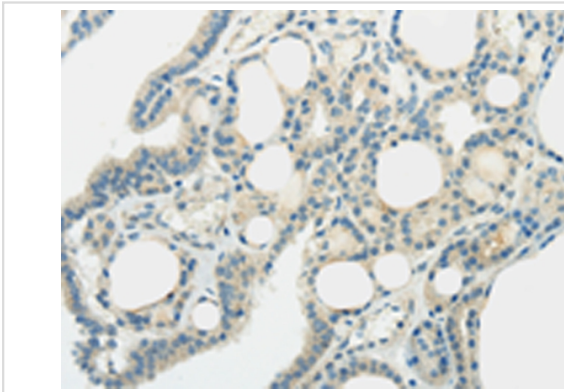
Western blotting: 1:500-1:2000

Immunohistochemistry: 1:20-1:100

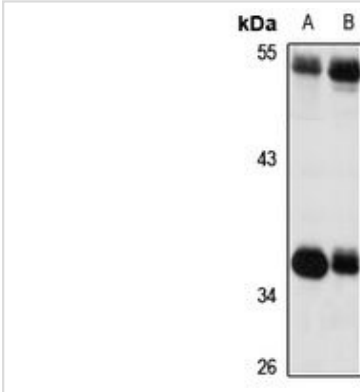
Images



Immunohistochemical analysis of paraffin-embedded Human brain tissue using #43437 at dilution 1/35.



Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using #43437 at dilution 1/35.



Western blot analysis of SLC7A11 expression in mouse kidney (A), rat liver (B) whole cell lysates.

Background

This gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. In this system, designated Xc(-), the anionic form of cysteine is transported in exchange for glutamate. This protein has been identified as the predominant mediator of Kaposi sarcoma-associated herpesvirus fusion and entry permissiveness into cells. Also, increased expression of this gene in primary gliomas (compared to normal brain tissue) was associated with increased glutamate secretion via the XCT channels, resulting in neuronal cell death.

Published Papers

et al., Pyroptotic macrophages induce disruption of glutamate metabolism in periodontal ligament stem cells contributing to their compromised osteogenic potential. In Cell Prolif on 2024 Oct by Li-Juan Sun, Hong-Lei Qu,et al..PMID:38803043, , (2024)

[PMID:38803043](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.