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SLC7A11/xCT Rabbit mAb

Catalog No.: A29142 Recombinant

Basic Information

Observed MW
38 kDa

Calculated MW
55 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC84272

Conjugate
Unmodified

Background

Predicted to enable L-kynurenine transmembrane transporter activity and cystine:glutamate antiporter activity. Involved in L-cystine transport. Acts upstream of or within several processes, including oligopeptide transmembrane transport; regulation of amino acid metabolic process; and regulation of protein localization. Located in apical part of cell; astrocyte projection; and brush border membrane. Is expressed in brain; eye; olfactory epithelium; and spinal cord meninges. Used to study Hermansky-Pudlak syndrome and platelet storage pool deficiency. Orthologous to human SLC7A11 (solute carrier family 7 member 11).

Recommended Dilutions

WB	1:8000 - 1:20000
IP	0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells
IF/ICC	1:200 - 1:400
IHC-P	1:100 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
26570

Swiss Prot
Q9UPY5

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
xCT; sut; 9930009M05Rik

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

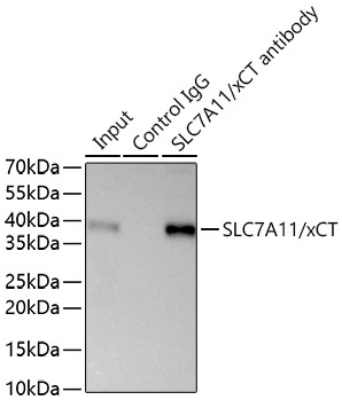
Contact

400-999-6126

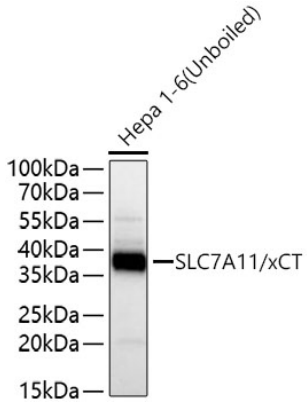
cn.market@abclonal.com.cn

www.abclonal.com.cn

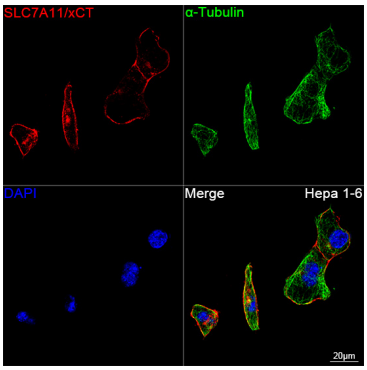
Validation Data



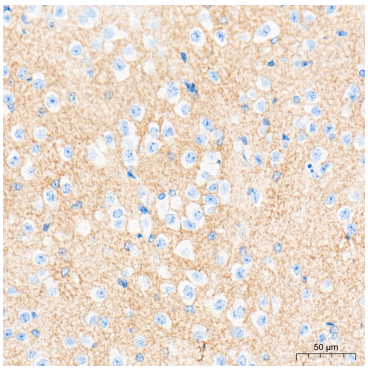
Immunoprecipitation of SLC7A11/xCT from 600 µg extracts of Mouse brain tissue was performed using 2 µg of SLC7A11/xCT Rabbit mAb (A29142).Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using SLC7A11/xCT Rabbit mAb (A29142) at a dilution of 1:5000.



Western blot analysis of lysates from Hepa 1-6 cells using SLC7A11/xCT Rabbit mAb (A29142) at 1:20000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Confocal imaging of Hepa 1-6 cells using SLC7A11/xCT Rabbit mAb (A29142, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using SLC7A11/xCT Rabbit mAb (A29142) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.