[KD Validated] Anti-SLC7A11/xCT Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R900004

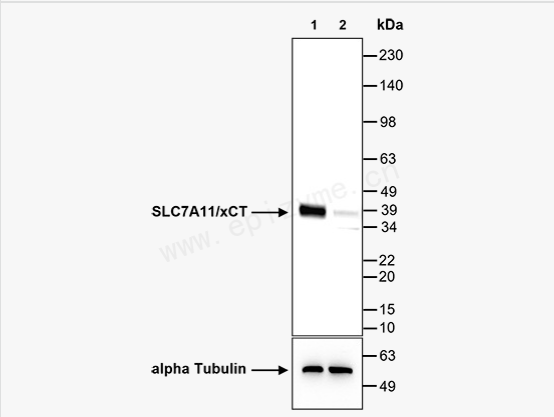
Product Information

Application	WB, IHC-P/IF (Tissue-P), IHC-F/IF (Tissue-F), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	25D33N50
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SLC7A11/xCT
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	[KD Validated] Anti-SLC7A11/xCT Rabbit mAb [25D33N50] is for research use only and not for use in diagnostic or therapeutic procedures.

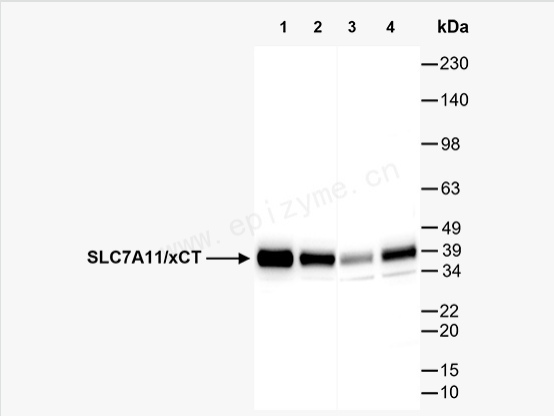
Protein Information

Synonyms	Amino acid transport system xc-; Calcium channel blocker resistance protein CCBR1; xCT; CCBR1; SLC7A11/xCT.
Calculated MW	Calculated MW: 35 kDa; Observed MW: 40 kDa
Uniprot ID	Q9UPY5
Gene ID	23657
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.
Cellular Location	Membrane,Multi-pass membrane protein.

Validation Images



Western blot –[KD Validated] Anti-SLC7A11/xCT Rabbit mAb [25D33N50]
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : SLC7A11/xCT KD HeLa whole cell lysates
Lysates/proteins at 10 µg per lane.
Primary antibody: R900004 with dilution of 1:2,000
Secondary antibody:
All lanes: Goat Anti-Rabbit IgG (H+L), HRP conjugated (LF102) with dilution of 1:5,000
Predicted band size: 35kDa
Observed band size: 40kDa
Developed using the ECL technique (Cat. No. SQ201).



Western blot –[KD Validated] Anti-SLC7A11/xCT Rabbit mAb [25D33N50]
Lane 1 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 3 : THP-1 treated with PMA (100 nM, 24 h) whole cell lysates
Lane 4 : THP-1 treated with PMA (100 nM, 24 h), followed by LPS (1 ug/ml, 12 h) whole cell lysates
Lysates/proteins at 10 µg per lane.
Primary antibody: R900004 with dilution of 1:2,000
Secondary antibody:
All lanes: Goat Anti-Rabbit IgG (H+L), HRP conjugated (LF102) with dilution of 1:5,000
Predicted band size: 35kDa
Observed band size: 40kDa
Developed using the ECL technique (Cat. No. SQ201).