



xCT Rabbit mAb

Catalog No	YP-rAb-17939
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	SLC7A11
Protein Name	Cystine/glutamate transporter (Amino acid transport system xc-) (Calcium channel blocker resistance protein CCB1) (Solute carrier family 7 member 11) (xCT)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200, Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	Cystine/glutamate transporter ; Amino acid transport system xc- ; Calcium channel blocker resistance protein CCB1 ; Solute carrier family 7 member 11 ; xCT ;
Observed Band	37kD
Calculated Molecular Weight	55kD
Cell Pathway	Membrane
Tissue Specificity	
Function	Sodium-independent, high-affinity exchange of anionic amino acids with high specificity for anionic form of cystine and glutamate.
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





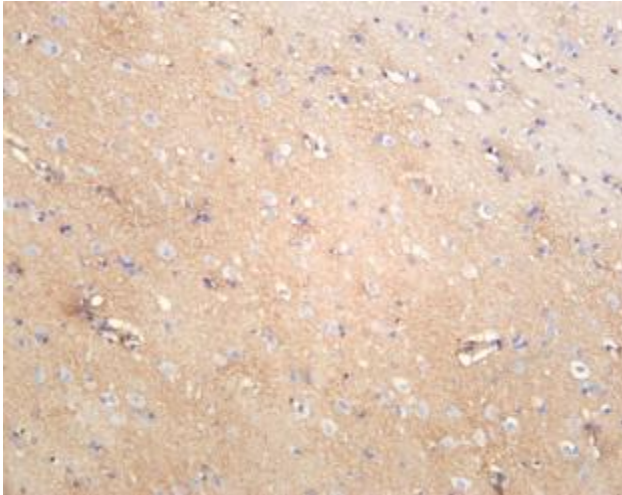
glutamate secretion via the XCT channels, resulting in neuronal cell death.
[provided by RefSeq, Sep 2011]

matters needing attention

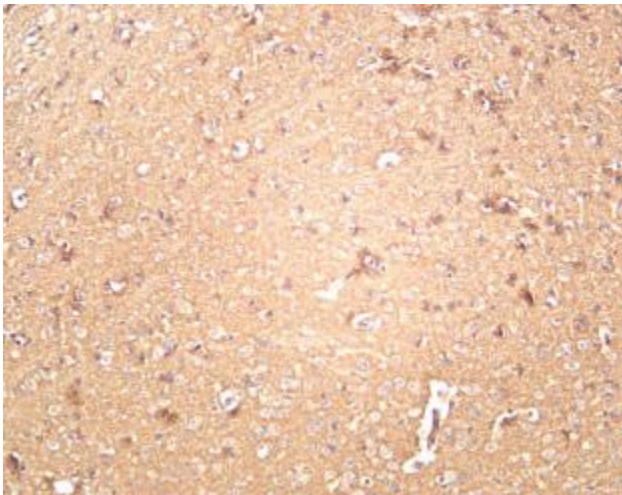
Avoid repeated freezing and thawing!

Usage suggestions

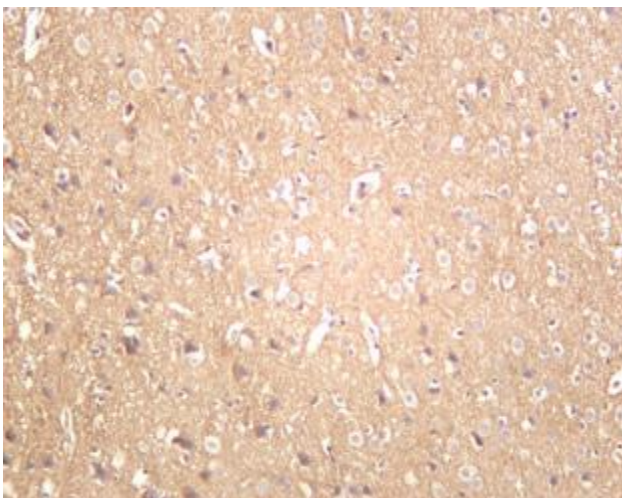
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human brain was stained with anti-xCT rabbit antibody



Mouse brain was stained with anti-xCT rabbit antibody

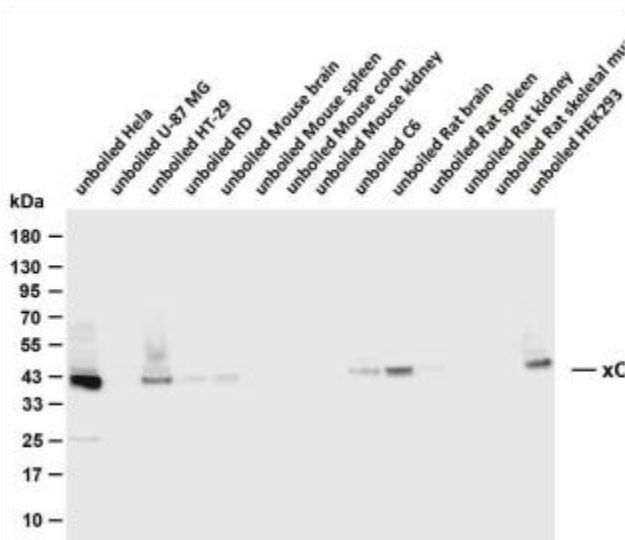
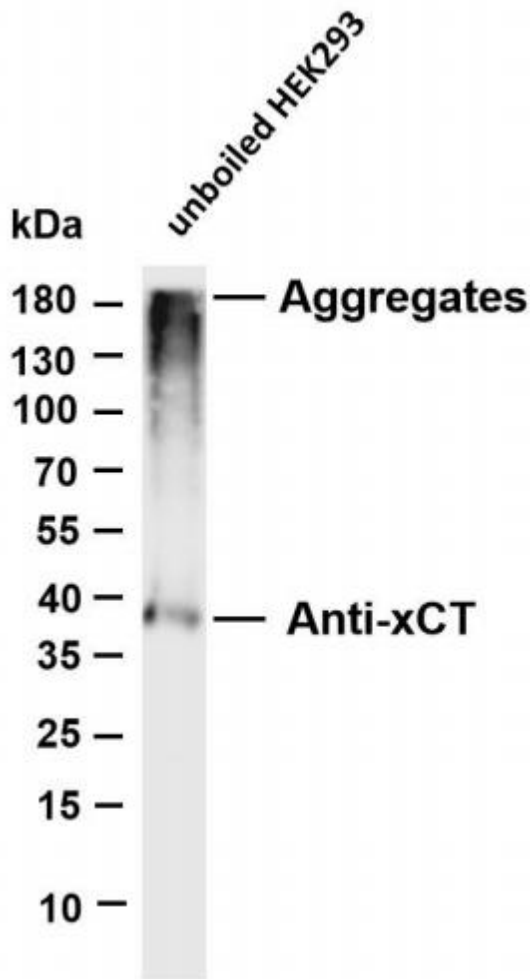


Rat brain was stained with anti-xCT rabbit antibody





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Anti-xCT antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: unboiled HEK293 Predicted band size: 55kDa Observed band size: 37kDa



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-xCT antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: unboiled HeLa Lane 2: unboiled U-87 MG Lane 3: unboiled HT-29 Lane 4: unboiled RD Lane 5: unboiled Mouse brain Lane 6: unboiled Mouse spleen Lane 7: unboiled Mouse colon Lane 8: unboiled Mouse kidney Lane 9: unboiled C6 Lane 10: unboiled Rat brain Lane 11: unboiled Rat spleen Lane 12: unboiled Rat kidney Lane 13: unboiled Rat skeletal muscle Lane 14: unboiled HEK293 Predicted band size: 55kDa Observed band size: 43kDa

