



# xCT Rabbit mAb

|                                    |  |
|------------------------------------|--|
| <b>Catalog No</b>                  | YP-rAb-17939   |
| <b>Isotype</b>                     | IgG  |
| <b>Reactivity</b>                  | Human,Mouse,Rat  |
| <b>Applications</b>                | WB,IHC,IF,IP,ELISA   |
| <b>Gene Name</b>                   | SLC7A11  |
| <b>Protein Name</b>                | Cystine/glutamate transporter (Amino acid transport system xc-) (Calcium channel blocker resistance protein CCBR1) (Solute carrier family 7 member 11) (xCT)   |
| <b>Purification Process</b>        | Protein A  |
| <b>Specificity</b>                 | Endogenous   |
| <b>Formulation</b>                 | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA   |
| <b>Source</b>                      | Monoclonal, Rabbit,IgG   |
| <b>Dilution</b>                    | 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  |
| <b>Concentration</b>               | 0.5 mg/ml  |
| <b>Purity</b>                      | ≥90%   |
| <b>Storage Stability</b>           | -15° C to -25° C/1 year(Do not lower than -25° C)  |
| <b>Synonyms</b>                    | Cystine/glutamate transporter ; Amino acid transport system xc- ; Calcium channel blocker resistance protein CCBR1 ; Solute carrier family 7 member 11 ; xCT ;   |
| <b>Observed Band</b>               | 37kD   |
| <b>Calculated Molecular Weight</b> | 55kD   |
| <b>Cell Pathway</b>                | Membrane   |
| <b>Tissue Specificity</b>          |  |
| <b>Function</b>                    | Sodium-independent, high-affinity exchange of anionic amino acids with high specificity for anionic form of cystine and glutamate.   |
| <b>Background</b>                  | 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 |





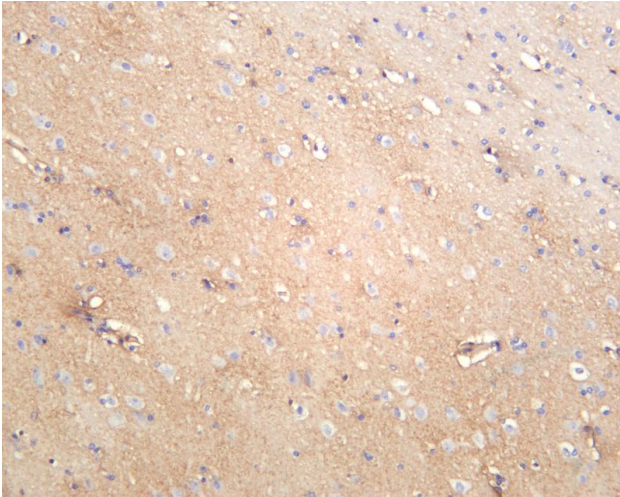
glutamate secretion via the XCT channels, resulting in neuronal cell death.  
[provided by RefSeq, Sep 2011]

**matters needing attention**

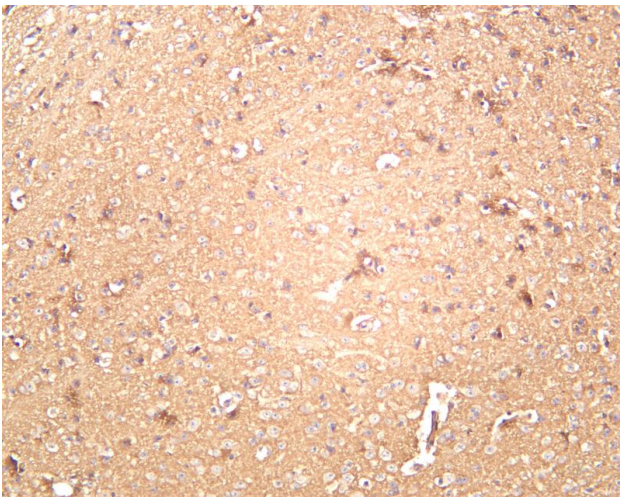
Avoid repeated freezing and thawing!

**Usage suggestions**

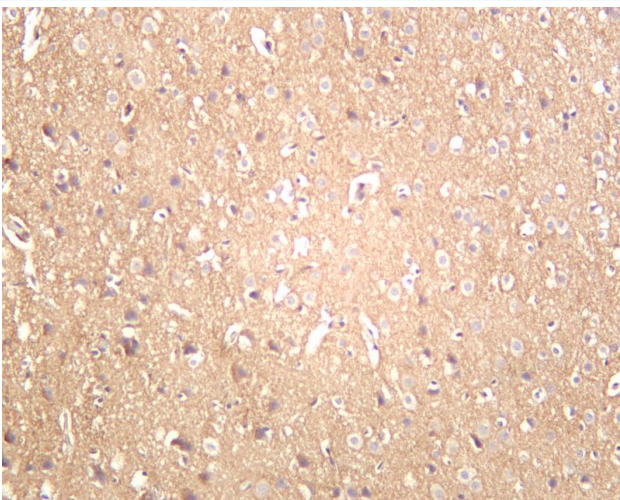
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



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

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| 宏基因组、转录组、基因组、蛋白组、代谢组测序



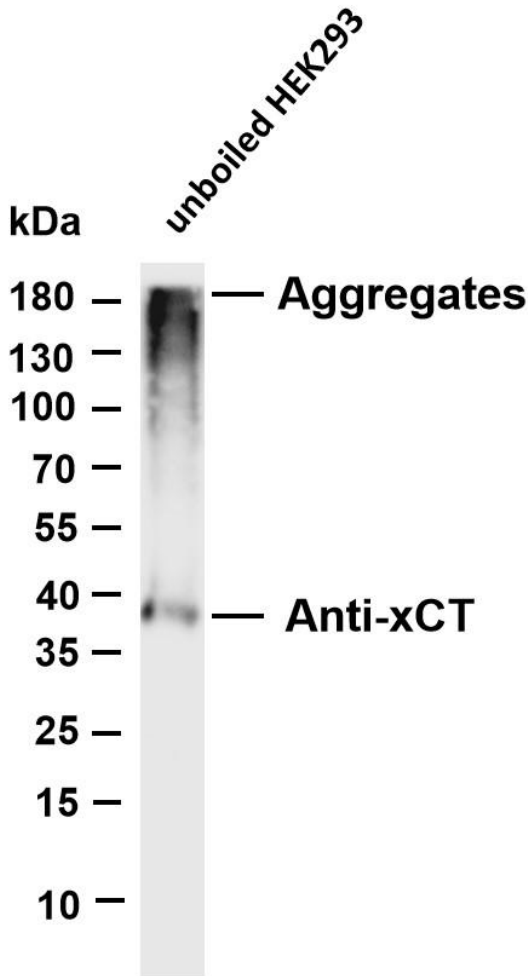
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Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Anti-xCT antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: unboiled HEK293 Predicted band size: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

