Anti-xCT Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015754

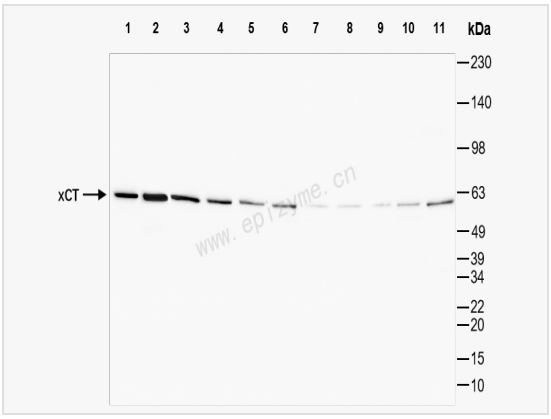
Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	28R64J15
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human 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°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-xCT Rabbit mAb [28R64J15] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Amino acid transport system xc xCT antibody; Amino acid transport system xc-; Calcium channel blocker resistance protein CCBR1; Calcium channel blocker resistance protein CCBR1 antibody; CCBR1; Cysteine/glutamate transporter antibody; Cystine/glutamate transporter; OTTHUMP00000164578; SLC7A11; Solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11; solute carrier family 7; Solute carrier family 7 member 11; Solute carrier family 7, (cationic amino acid transporter, y+ system) member 11; SYSTEM Xc(-) TRANSPORTER-RELATED PROTEIN; xCT; XCT_HUMAN.
Calculated MW	Calculated MW: 55 kDa; Observed MW: 55 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. [provided by RefSeq, Sep 2011]
Cellular Location	Membrane.

Validation Images



Western Blot - Anti-xCT Rabbit mAb [28R64J15]
All lanes: R015754 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 8: Mouse heart whole tissue lysates
Lane 9: Mouse brain whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 11: Rat liver whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 55 kDa
Observed band size: 55 kDa
Developed using the ECL technique (Cat. No. SQ201).