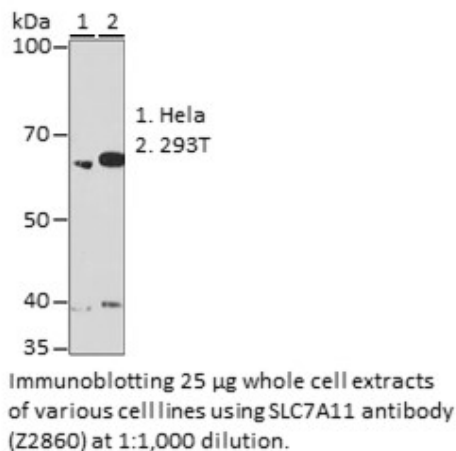


<b>Product Name:</b>	SLC7A11 Rabbit mAb
<b>Catalog #:</b>	Z2860-20; Z2860-100
<b>Also Known As:</b>	CCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1; xCTCCBR1
<b>Quantity:</b>	20 µl for Z2860-20; 100 µl for Z2860-100
<b>Concentration:</b>	See labels on tube
<b>Host Species:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Reactivity:</b>	Human, Rat
<b>Immunogen:</b>	A synthesized peptide derived from human SLC7A11.
<b>Swiss Prot. #:</b>	Q9UPY5
<b>Calculated MW:</b>	55kDa
<b>Detected MW:</b>	37kDa
<b>Applications:</b>	WB (1:500 - 1:2,000) IP (not tested) IHC (not tested) IF (not tested) Note: Antibody dilution should be optimized by users.

**Images:**



<b>Purification:</b>	Protein A or G affinity purification
<b>Buffer:</b>	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
<b>Storage:</b>	Store at -20°C. Centrifuge to maximize product recovery.
<b>Background:</b>	SLC7A11 belongs to the amino acid-polyamine-organocation (APC) superfamily. The x(c)(-) cysteine/glutamate antiporter consists of a light chain subunit (xCT/SLC7A11) that confers substrate specificity and a glycosylated heavy chain subunit (4F2hc/SLC3A2) located on the cell surface. The heterodimeric amino acid transport system x(c)(-) provides selective import of cysteine into cells in exchange for glutamate and regulates intracellular glutathione (GSH) levels, which is essential for cellular protection from oxidative stress. Studies have shown that xCT expression increases in various tumors, including gliomas, and have implicated xCT in GSH-mediated anticancer drug resistance. Also, xCT provides neuroprotection by enhancing glutathione export from non-neuronal cells.

**Reference:**

1. Sato H, et al. (1999) J Biol Chem 274, 11455-11458.
2. Jiang L, et al. (2015) Nature 520, 57-62.