SLC7A11 polyclonal antibody

Catalog: BS67354 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

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 regulating intracellular glutathione (GSH) levels, which is essential for cellular protection from oxidative stress. Research studies have shown that xCT expression increases in various tumors, including gliomas, and have implicated xCT in GSH-mediated anticancer drug resistance. Researchers have found that xCT provides neuroprotection by enhancing glutathione export from non-neuronal cells. Moreover, investigators identified xCT as the fusion-entry receptor for Kaposi's sarcoma-associated herpesvirus.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 55 kDa

Swiss-Prot:

Q9UPY5

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/500 - 1/2000)

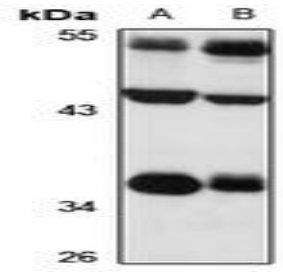
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of SLC7A11 protein

DATA:



Western blot analysis of SLC7A11 expression in mouse kidney (A), rat liver (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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