

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for human SLC1A5 around amino acid 520 in Direct ELISA.
Source	Monoclonal Rabbit IgG Clone # 3085B
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # Q9JKD8
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SLC1A5 is a sodium dependent antiporter also known as ASCT2 (ASC amino acid Transporter2). It is a member of the solute carrier (SLC) superfamily of transporters and plays an important role in tumors. It is one of the 3 proteins, including SLC7A5 and SLC3A2, that are among the highest differentially expressed genes in activated lymphocytes and cancerous cells. Pharmacological inhibition of SLC1A5 was found to abrogate the effector functions of NK cells. In a pancancer analysis of SLC1A5, it has been demonstrated to be a prognostic biomarker in cancer patients.

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