

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide corresponding to residues near amino acid 400 of human CS protein in Direct ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 1081813
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # O75390
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Citrate Synthase (CS) is a 52kDa enzyme found in nearly all cells capable of oxidative metabolism. This enzyme is the first step of the tricarboxylic acid (TCA) cycle and is found in the mitochondrial matrix. Citrate Synthase is commonly used as a marker for the presence of intact mitochondria. Loss of CS facilitates cytosolic glycolysis and results in epithelial-mesenchymal transition (EMT) and tumor malignancy.

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