

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glutaminyl-peptide Cyclotransferase/QPCT in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Glutaminyl-peptide Cyclotransferase/QPCT Ala33-Leu361 Accession # Q16769
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

Glutaminyl-peptide Cyclotransferase, also known as Glutaminyl Cyclase, catalyzes the conversion of N-terminal L-glutaminyl residues of peptides to pyroglutamyl groups (1). The enzyme is present in the pituitary and adrenal glands, where it is important for the generation of the N-terminal pyroglutamyl groups of peptide hormones such as neurotensin and thyrotropin-releasing hormone. Glutaminyl Cyclase also catalyzes the conversion of N-terminal L-glutaminyl residues to pyroglutamyl residues (2). This activity may contribute to the formation of several amyloid-related plaque forming peptides, contributing to Alzheimer's disease pathology. Glutaminyl Cyclase is also considered to be a diagnostic marker of thyroid tumors (3).

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