10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

QPCT Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17434b

Specification

QPCT Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q16769
Other Accession	NP_036545.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**40877**
Antigen Region	**315-343**

QPCT Antibody (C-term) - Additional Information

Gene ID 25797

Other Names
Glutaminyl-peptide cyclotransferase, Glutaminyl cyclase, QC, sQC, Glutaminyl-tRNA cyclotransferase, Glutamyl cyclase, EC, QPCT

Target/Specificity
This QPCT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 315-343 amino acids from the C-terminal region of human QPCT.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
QPCT Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

QPCT Antibody (C-term) - Protein Information

Name QPCT

Function Responsible for the biosynthesis of pyroglutamyl peptides. Has a bias against acidic and tryptophan residues adjacent to the N- terminal glutaminyl residue and a lack of importance of chain length after the second residue. Also catalyzes N-terminal pyroglutamate formation. In vitro, catalyzes pyroglutamate formation of N-terminally truncated form of APP amyloid-beta peptides [Glu-3]-amyloid-beta. May be involved in the N-terminal pyroglutamate formation of several amyloid-related plaque-forming peptides.

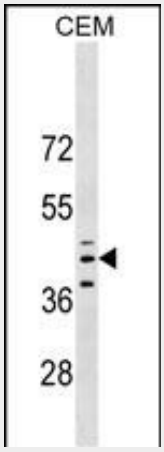
Cellular Location
Secreted.

QPCT Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

QPCT Antibody (C-term) - Images



QPCT Antibody (C-term) (Cat. #AP17434b) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the QPCT antibody detected the QPCT protein (arrow).

QPCT Antibody (C-term) - Background

This gene encodes human pituitary glutaminyl cyclase, which is responsible for the presence of pyroglutamyl residues in many neuroendocrine peptides. The amino acid sequence of this enzyme is 86% identical to that of bovine glutaminyl cyclase.

QPCT Antibody (C-term) - References

Morawski, M., et al. Acta Neuropathol. 120(2):195-207(2010)
Stephan, A., et al. FEBS J. 276(22):6522-6536(2009)
Marroni, F., et al. Circ Cardiovasc Genet 2(4):322-328(2009)

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