

QPCT Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant QPCT.****Catalog # AT3508a****Specification**

QPCT Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	Q16769
Other Accession	NM_012413
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	40877

QPCT Antibody (monoclonal) (M01) - Additional Information**Gene ID** 25797**Other Names**

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

Target/Specificity

QPCT (NP_036545, 262 a.a. ~ 359 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

QPCT Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

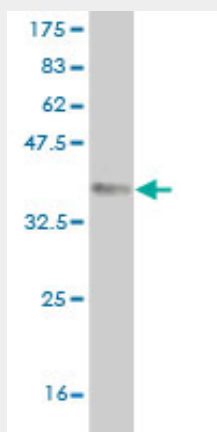
QPCT Antibody (monoclonal) (M01) - Protocols

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

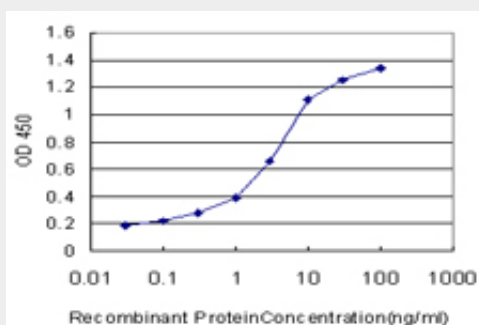
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

QPCT Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



Detection limit for recombinant GST tagged QPCT is approximately 0.03ng/ml as a capture antibody.

QPCT Antibody (monoclonal) (M01) - Background

This gene encodes human pituitary glutaminy 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 glutaminy cyclase.

QPCT Antibody (monoclonal) (M01) - References

A genome-wide association scan of RR and QT interval duration in 3 European genetically isolated populations: the EUROSPAN project. Marroni F, et al. Circ Cardiovasc Genet, 2009 Aug. PMID 20031603. Mammalian glutaminy cyclases and their isoenzymes have identical enzymatic characteristics. Stephan A, et al. FEBS J, 2009 Nov. PMID 19804409. Isolation of an isoenzyme of human glutaminy cyclase: retention in the Golgi complex suggests involvement in the protein maturation machinery. Cynis H, et al. J Mol Biol, 2008 Jun 20. PMID 18486145. Computational evidence for the catalytic mechanism of glutaminy cyclase. A DFT investigation. Calvaresi M, et al. Proteins, 2008 Nov 15. PMID 18470930. A conserved hydrogen-bond network in the catalytic centre of animal glutaminy cyclases is critical for catalysis. Huang KF, et al. Biochem J, 2008 Apr 1. PMID

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