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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

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

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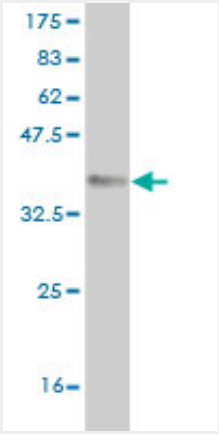
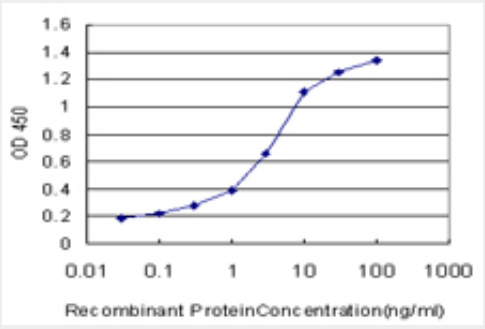
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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 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 (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 glutaminyl cyclases and their isoenzymes have identical enzymatic characteristics. Stephan A, et al. FEBS J, 2009 Nov. PMID 19804409.Isolation of an isoenzyme of human glutaminyl 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 glutaminyl 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 glutaminyl cyclases is critical for catalysis. Huang KF, et al. Biochem J, 2008 Apr 1. PMID 18072935.