

**QTRTD1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11696b****Specification**

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**QTRTD1 Antibody (C-term) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | IF, WB, IHC-P, FC,E         |
| Primary Accession | <a href="#">O9H974</a>      |
| Other Accession   | <a href="#">NP_078914.1</a> |
| Reactivity        | Human                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 46713                       |
| Antigen Region    | 321-350                     |

**QTRTD1 Antibody (C-term) - Additional Information****Gene ID** 79691**Other Names**

Queuine tRNA-ribosyltransferase subunit QTRTD1 {ECO:0000255|HAMAP-Rule:MF\_03043}, 24229 {ECO:0000255|HAMAP-Rule:MF\_03043}, Queuine tRNA-ribosyltransferase domain-containing protein 1 {ECO:0000255|HAMAP-Rule:MF\_03043}, QTRTD1 {ECO:0000255|HAMAP-Rule:MF\_03043}

**Target/Specificity**

This QTRTD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 321-350 amino acids from the C-terminal region of human QTRTD1.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**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**

QTRTD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**QTRTD1 Antibody (C-term) - Protein Information**

**Name** QTRT2 {ECO:0000255|HAMAP-Rule:MF\_03043}

**Synonyms** QTRTD1

**Function** Non-catalytic subunit of the queuine tRNA-ribosyltransferase (TGT) that catalyzes the base-exchange of a guanine (G) residue with queuine (Q) at position 34 (anticodon wobble position) in tRNAs with GU(N) anticodons (tRNA-Asp, -Asn, -His and -Tyr), resulting in the hypermodified nucleoside queuosine (7-(((4,5-cis-dihydroxy-2-cyclopenten-1-yl)amino)methyl)-7-deazaguanosine).

**Cellular Location**

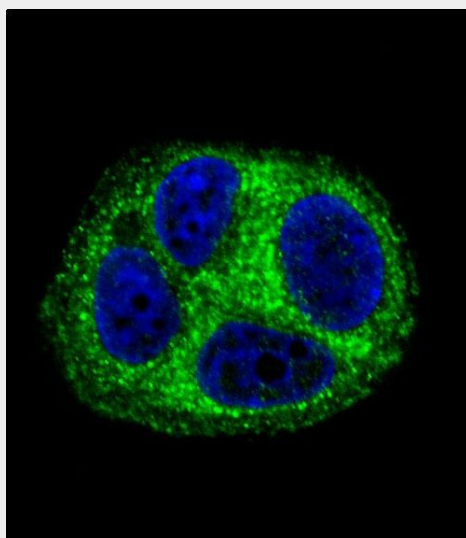
Cytoplasm {ECO:0000255|HAMAP-Rule:MF\_03043}. Mitochondrion outer membrane {ECO:0000255|HAMAP-Rule:MF\_03043}; Peripheral membrane protein {ECO:0000255|HAMAP-Rule:MF\_03043}; Cytoplasmic side {ECO:0000255|HAMAP-Rule:MF\_03043}. Note=May associate with the mitochondrion outer membrane. {ECO:0000255|HAMAP-Rule:MF\_03043}

**QTRTD1 Antibody (C-term) - Protocols**

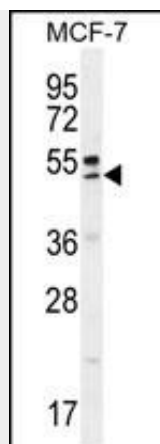
Provided below are standard protocols that you may find useful for product applications.

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

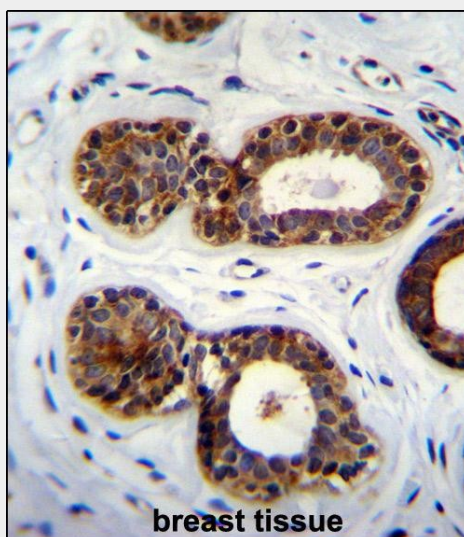
**QTRTD1 Antibody (C-term) - Images**



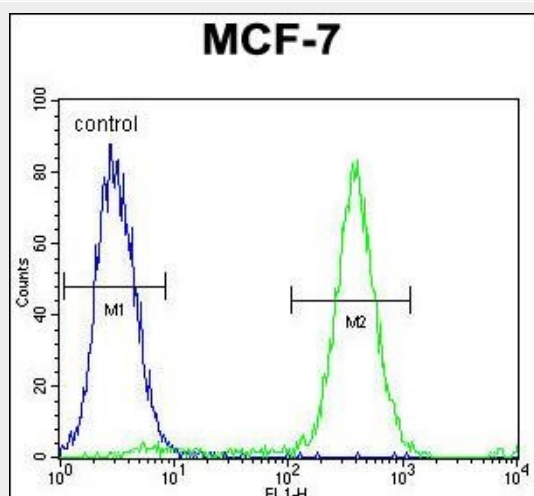
Confocal immunofluorescent analysis of QTRTD1 Antibody (C-term)(Cat#AP11696b) with MCF-7 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



QTRTD1 Antibody (C-term) (Cat. #AP11696b) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the QTRTD1 antibody detected the QTRTD1 protein (arrow).



QTRTD1 Antibody (C-term) (Cat. #AP11696b) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of QTRTD1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



QTRTD1 Antibody (C-term) (Cat. #AP11696b) flow cytometric analysis of MCF-7 cells (right

histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **QTRTD1 Antibody (C-term) - Background**

Interacts with QTRT1 to form an active queuine tRNA-ribosyltransferase. This enzyme exchanges queuine for the guanine at the wobble position of tRNAs with GU(N) anticodons (tRNA-Asp, -Asn, -His and -Tyr), thereby forming the hypermodified nucleoside queuosine (Q) (7-(((4,5-cis-dihydroxy-2-cyclopenten-1-yl)amino)methyl)-7-deazaguanosine) (By similarity).

#### **QTRTD1 Antibody (C-term) - References**

Chen, Y.C., et al. RNA 16(5):958-968(2010) Lamesch, P., et al. Genomics 89(3):307-315(2007)