QTRT1 Antibody

PACO42130

Product Information

Size:

50ug

Reactivity:

Human

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:2000, IHC:1:20-1:200

Protein Background:

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 GUN 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). Catalysis occurs through a double-displacement mechanism. The nucleophile active site attacks the C1' of nucleotide 34 to detach the guanine base from the RNA, forming a covalent enzyme-RNA intermediate. The proton acceptor active site deprotonates the incoming queuine, allowing a nucleophilic attack on the C1' of the ribose to form the product.

Gene ID:

QTRT1

Uniprot

Q9BXR0

Synonyms:

Queuine tRNA-ribosyltransferase catalytic subunit 1 (EC 2.4.2.29) (Guanine insertion enzyme) (tRNA-guanine transglycosylase), QTRT1, TGT TGUT

Immunogen:

Recombinant Human Queuine tRNA-ribosyltransferase catalytic subunit 1 protein (211-403AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

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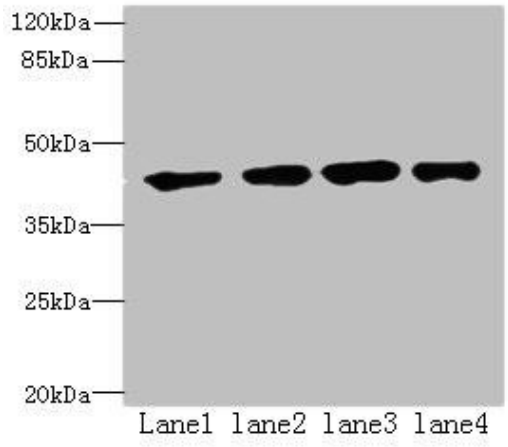
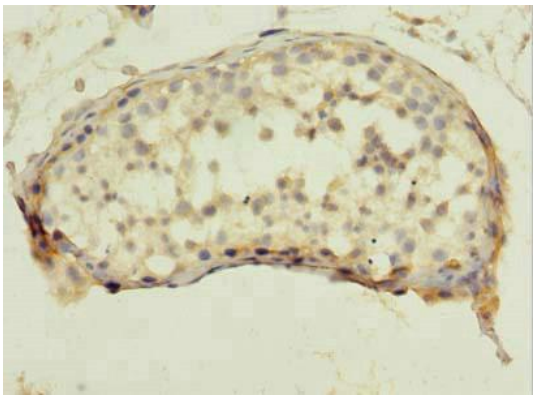
Product Images



Western blot. All lanes: QTRT1 antibody at 6µg/ml. Lane 1: MCF-7 whole cell lysate. Lane 2: PC-3 whole cell lysate. Lane 3: Jurkat whole cell lysate. Lane 4: A431 whole cell lysate. Secondary. Goat polyclonal to rabbit IgG at 1/10000 dilution. Predicted band size: 45, 25 kDa. Observed band size: 45 kDa.



Immunohistochemistry of paraffin-embedded human testis tissue using PACO42130 at dilution of 1:100.

