QPCT Polyclonal antibody

Catalog Number:18571-1-AP

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Basic Information

Catalog Number: 18571-1-AP	**GenBank Accession Number:** BC047756	**Purification Method:** Antigen affinity purification
Concentration: 550 ug/ml	**GeneID (NCBI):** 25797	**Recommended Dilutions:** WB 1:500-1:2000 IF/ICC 1:50-1:500
Source: Rabbit	**UNIPROT ID:** Q16769	
Isotype: IgG	**Full Name:** glutaminyl-peptide cyclotransferase	
Immunogen Catalog Number: AG13416	**Calculated MW:** 361 aa, 41 kDa	
	Observed MW: 41 kDa, 35 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human

Positive Controls:
WB : Caki-2 cells, human urine sample

IF/ICC : HEK-293 cells,

Background Information

Glutaminyl-peptide cyclotransferase (QPCT) gene encodes glutaminyl cyclase (QC), an enzyme that plays a role in post-translational modification of proteins by converting N-terminal glutamate to pyroglutamine. QPCT plays a specific role in promoting tumor cell proliferation, migration and angiogenesis as well as in inhibiting tumor cell apoptosis in cancers such as thyroid cancer and renal cell carcinoma (PMID: 38417050). Human QPCT has two isoforms produced by alternative splicing, 41 kDa and 35 kDa, respectively.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage
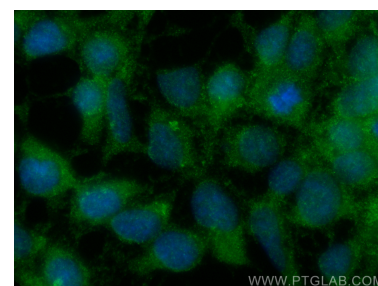
Selected Validation Data
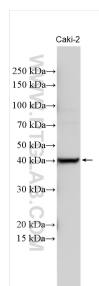
Various lysates were subjected to SDS PAGE followed by western blot with 18571-1-AP (QPCT antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.
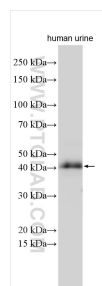
Various lysates were subjected to SDS PAGE followed by western blot with 18571-1-AP (QPCT antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using QPCT antibody (18571-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).