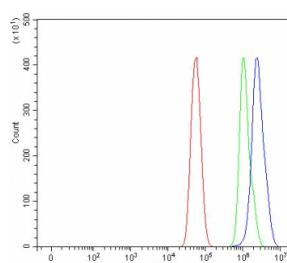


## PHTF1 Antibody / Putative homeodomain transcription factor 1 (RQ8013)

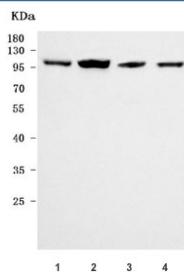
Catalog No.	Formulation	Size
RQ8013	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q9UMS5
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This PHTF1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human U-87 MG cells with PHTF1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PHTF1 antibody.



Western blot testing of human 1) U-87 MG, 2) MCF7, 3) HeLa and 4) SiHa cell lysate with PHTF1 antibody. Predicted molecular weight ~87 kDa but may be observed at higher molecular weights due to glycosylation.

## Description

PHTF1 (putative homeodomain transcription factor 1), also known as PHTF, is a potential transcription regulator. It is a ubiquitously expressed integral, multipass membrane protein with predominant expression in testis. PHTF1 is associated with the ER (endoplasmic reticulum) and contains one bHLH (basic helix-loop-helix) domain. It is present in the cell during meiosis and spermiogenesis but, by the end of spermiogenesis, is released from the mature cell within the residual bodies. This implies that PHTF1 may play a role in the spermatozoa maturation process. In addition, PHTF1 is believed to interact with FEM1B and may be responsible for recruiting FEM1B to the surface of the ER membrane. This suggests that PHTF1 acts as a sequestering or anchoring protein for FEM1B. Two PHTF1 isoforms exist due to alternate splicing events. Isoform 2 is the shorter form and lacks the amino acid residues 648 to 762.

## Application Notes

Optimal dilution of the PHTF1 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids I188-Q430) was used as the immunogen for the PHTF1 antibody.

## Storage

After reconstitution, the PHTF1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.