

**RFK Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7183a****Specification**

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**RFK Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q969G6</a>
Other Accession	<a href="#">Q8CFV9</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17623
Antigen Region	1-30

**RFK Antibody (N-term) - Additional Information****Gene ID** 55312**Other Names**

Riboflavin kinase, ATP:riboflavin 5'-phosphotransferase, Flavokinase, RFK

**Target/Specificity**

This RFK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human RFK.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

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

**RFK Antibody (N-term) - Protein Information****Name** RFK

**Function** Catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN), hence rate-limiting enzyme in the synthesis of FAD. Essential for TNF-induced reactive oxygen species (ROS) production. Through its interaction with both TNFRSF1A and CYBA, physically and functionally couples TNFRSF1A to NADPH oxidase. TNF- activation of RFK may enhance the incorporation of FAD in NADPH oxidase, a critical step for the assembly and activation of NADPH oxidase.

**Cellular Location**

Cytoplasm.

**Tissue Location**

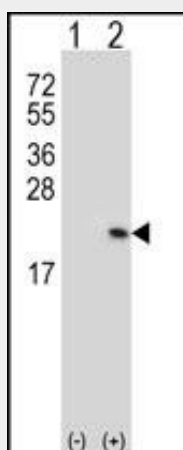
Detected in brain, placenta and urinary bladder.

**RFK Antibody (N-term) - Protocols**

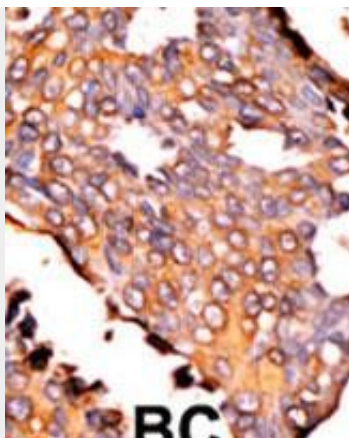
Provided below are standard protocols that you may find useful for product applications.

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

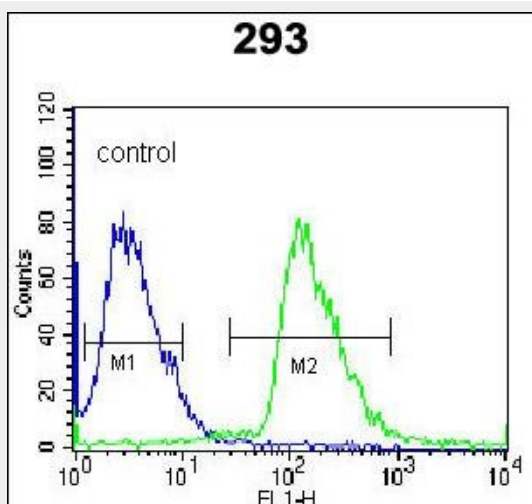
**RFK Antibody (N-term) - Images**



Western blot analysis of RFK (arrow) using rabbit polyclonal RFK Antibody (C15) (Cat. #AP7183a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RFK gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



RFK Antibody (N-term) (Cat. #AP7183a) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **RFK Antibody (N-term) - Background**

RFK (riboflavin kinase) catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN).

#### **RFK Antibody (N-term) - References**

Karthikeyan, S., et al., Biochemistry 42(43):12532-12538 (2003).  
Karthikeyan, S., et al., Structure (Camb.) 11(3):265-273 (2003).

#### **RFK Antibody (N-term) - Citations**

- [TDP-43 accelerates age-dependent degeneration of interneurons.](#)