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

Specification

RFK Antibody (N-term) - Product Information

Application	**FC, WB, IHC-P,E**
Primary Accession	Q969G6
Other Accession	Q8CFV9
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
FC~~1:10~50
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

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

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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.

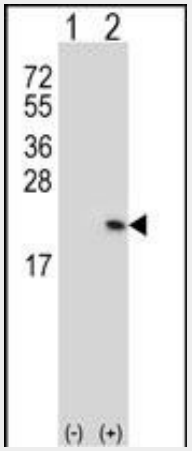
Tissue Location
Detected in brain, placenta and urinary bladder.

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 Cytomety
- 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.

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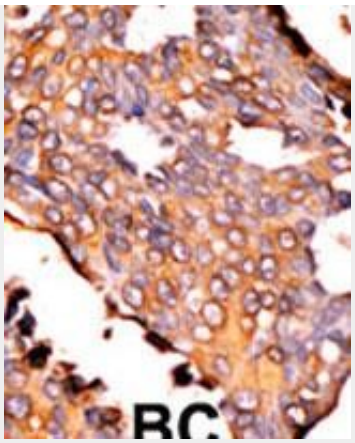
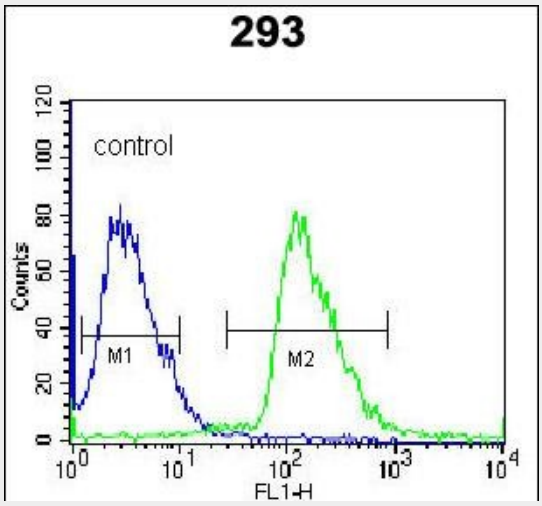


Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast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