

## Anti-PRKAG3 Antibody (6D439)

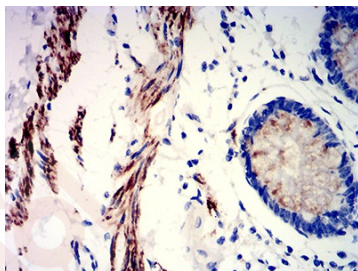
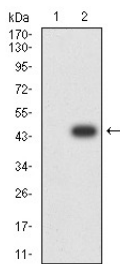
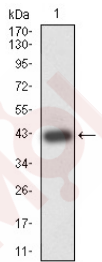
### Product Details

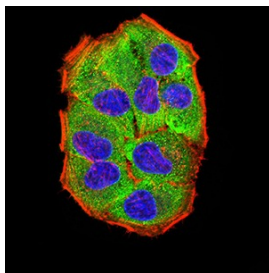
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 54 kDa.
Clone:	6D439
Purification:	ProA affinity purified

### Applications

Verified Activity:

1. Western blot analysis of PRKAG3 on human PRKAG3 recombinant protein using anti-PRKAG3 antibody at 1/1,000 dilution.
2. Western blot analysis of PRKAG3 on HEK293 (1) and PRKAG3-hlgGfC transfected HEK293 (2) cell lysate using anti-PRKAG3 antibody at 1/1,000 dilution.
3. Immunohistochemical analysis of paraffin-embedded human rectum tissue using anti-PRKAG3 antibody. Counter stained with hematoxylin.
4. ICC staining PRKAG3 (green) and Actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC,IHC,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9UGI9

Synonyms: AMPK gamma 3 chain;5''-AMP-activated protein kinase subunit gamma-3;AAKG3\_HUMAN; AMPK subunit gamma-3;Protein kinase AMP activated gamma 3 non catalytic subunit;AMPK gamma3;AMPKG3;5 AMP activated protein kinase subunit gamma 3;PRKAG 3

### Research Background

AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enz

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