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# anti-GRK2 antibody (C-Term)

3 Images



**Publications** 



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Overview			
Quantity:	400 μL		
Target:	GRK2 (ADRBK1)		
Binding Specificity:	AA 633-660, C-Term		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This GRK2 antibody is un-conjugated		
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))		
Product Details			
Immunogen:	This ADRBK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic		
	peptide between 633-660 amino acids from the C-terminal region of human ADRBK1.		
Clone:	RB0982		
Isotype:	Ig Fraction		
Predicted Reactivity:	B, M, Rat		
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.		
Target Details			
Target:	GRK2 (ADRBK1)		

# **Target Details**

- 3		
Alternative Name:	ADRBK1 (ADRBK1 Products)	
Background:	Beta-adrenergic receptor kinase (ADRBK1), also known as GRK2, phosphorylates the beta-2-	
	adrenergic receptor and appears to mediate agonist-specific desensitization observed at high	
	agonist concentrations. ADRBK1 is an ubiquitous cytosolic enzyme that specifically	
	phosphorylates the activated form of the beta-adrenergic and related G-protein-coupled	
	receptors. Heart failure is accompanied by severely impaired beta-adrenergic receptor (beta-	
	AR) function. An important mechanism for the rapid desensitization of beta-AR function is	
	agonist-stimulated receptor phosphorylation by the beta-AR kinase (beta-ARK1), an enzyme	
	known to be elevated in failing human heart tissue. Abnormal coupling of beta-adrenergic	
	receptor to G protein is involved in the pathogenesis of the failing heart.	
Molecular Weight:	79574	
NCBI Accession:	NP_001610	
UniProt:	P25098	
Pathways:	EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of G-Protein Coupled	
	Receptor Protein Signaling, CXCR4-mediated Signaling Events, G-protein mediated Events,	
	Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling	
Application Details		
Application Notes:	WB: 1:1000. IHC-P: 1:50~100. IHC-P: 1:50~100	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Expiry Date:	6 months	

Product cited in:

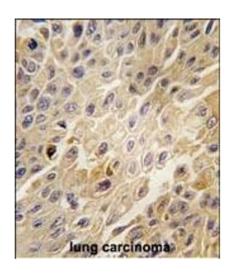
Wendeler, Pabst, Wang, Strouse, Wang, Hunter: "Process-scale purification and analytical characterization of highly gamma-carboxylated recombinant human prothrombin." in: **Journal of chromatography. A**, Vol. 1325, pp. 171-8, (2014) (PubMed).

Yang, Ko, Yang, Kim, Seo, Park, Choi, Seong, Kweon: "Interleukin-1 promotes coagulation, which is necessary for protective immunity in the lung against Streptococcus pneumoniae infection." in: **The Journal of infectious diseases**, Vol. 207, Issue 1, pp. 50-60, (2012) (PubMed).

Lim, Joy, Hill, San Brian Chia: "Novel agmatine and agmatine-like peptidomimetic inhibitors of the West Nile virus NS2B/NS3 serine protease." in: **European journal of medicinal chemistry**, Vol. 46, Issue 7, pp. 3130-4, (2011) (PubMed).

There are more publications referencing this product on: Product page

#### **Images**



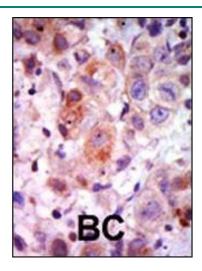
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## **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with GRK2 Antibody (C-term) (ABIN1882061 and ABIN2841168), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

## **Western Blotting**

Image 2. Western blot analysis of anti-GRK2 C-term Pab (ABIN1882061 and ABIN2841168) in Ramos cell lysate. GRK2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



## Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** 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.