

**AD\_K2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7005a****Specification**

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**AD\_K2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P35626</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	633-660

**AD\_K2 Antibody (C-term) - Additional Information****Gene ID** 157**Other Names**

Beta-adrenergic receptor kinase 2, Beta-ARK-2, G-protein-coupled receptor kinase 3, ADRBK2, BARK2, GRK3

**Target/Specificity**

This AD\_K2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 633-660 amino acids from the C-terminal region of human AD\_K2.

**Dilution**

WB~~1:1000

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**

AD\_K2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**AD\_K2 Antibody (C-term) - Protein Information****Name** GRK3 ([HGNC:290](#))**Function** Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors.

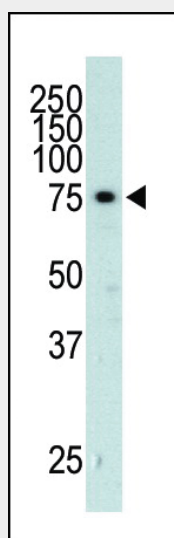
**Cellular Location**

Postsynapse {ECO:0000250|UniProtKB:P26819}. Presynapse {ECO:0000250|UniProtKB:P26819}

**AD\_K2 Antibody (C-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](#)

**AD\_K2 Antibody (C-term) - Images**

The anti-GRK3 Pab (Cat. #AP7005a) is used in Western blot to detect GRK3 in mouse heart tissue lysate.

**AD\_K2 Antibody (C-term) - Background**

The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the ADRBK2 enzyme, also known as GRK3, has 85% amino acid similarity with ADRBK1, with the protein kinase catalytic domain having 95% similarity. The ADRBK2 mRNA is approximately 8 kilobases with a distribution similar to that of ADRBK1. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function.

**AD\_K2 Antibody (C-term) - References**

Calabrese, G., et al., Genomics 23(1):286-288 (1994). Parruti, G., et al., Biochem. Biophys. Res. Commun. 190(2):475-481 (1993). Benovic, J.L., et al., J. Biol. Chem. 266(23):14939-14946 (1991).

**AD\_K2 Antibody (C-term) - Citations**

- [G Protein Coupled Receptor Kinase 3 Regulates Breast Cancer Migration, Invasion, and Metastasis.](#)

- [Decreased GRK3 but not GRK2 expression in frontal cortex from bipolar disorder patients.](#)