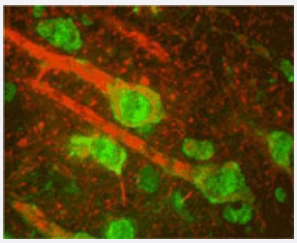
ADRBK1 monoclonal antibody, clone 5D5

Catalog # MAB2373 Size 250 uL

Applications



Immunohistochemistry

ADRBK1 monoclonal antibody, clone 5D5 (Cat # MAB2373) (green) and neurofilament NF-M (red) staining, in rat cortex, showing mostly large pyramidal neurons. Photo courtesy of Dr. Gerry Shaw, University of Florida.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant ADRBK1.
Immunogen	Recombinant protein corresponding to human ADRBK1.
Host	Mouse
Reactivity	Bovine, Human, Rat
Form	Liquid
Isotype	IgG1, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Immunohistochemistry (1:100) Western Blot (1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In tissue culture supernatant
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry

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- Immunocytochemistry

Gene Info — ADRBK1

Entrez GeneID	156
Protein Accession#	P25098
Gene Name	ADRBK1
Gene Alias	BARK1, BETA-ARK1, FLJ16718, GRK2
Gene Description	adrenergic, beta, receptor kinase 1
Omim ID	109635
Gene Ontology	Hyperlink
Gene Summary	The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiqui tous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic a nd related G-protein-coupled receptors. Abnormal coupling of beta-adrenergic receptor to G prot ein is involved in the pathogenesis of the failing heart. [provided by RefSeq
Other Designations	beta adrenergic receptor kinase 1

Publication Reference

- Cardiac beta ARK1 inhibition prolongs survival and augments beta blocker therapy in a mouse model of severe heart failure.

  Harding VB, Jones LR, Lefkowitz RJ, Koch WJ, Rockman HA.

  PNAS 2001 May; 98(10):5809.

  Application: WB-Ti, Mouse, Mouse hearts

- G protein-coupled receptor kinases.

  Pitcher JA, Freedman NJ, Lefkowitz RJ.

  Annual Review of Biochemistry 1998 Jul; 67:653.

- Beta-adrenergic receptor kinase: identification of a novel protein kinase that phosphorylates the agonist-occupied form of the receptor.

  Benovic JL, Strasser RH, Caron MG, Lefkowitz RJ.

  PNAS 1986 May; 83(9):2797.

Pathway

- Chemokine signaling pathway
- Endocytosis

Disease

- Anorexia Nervosa
- Bulimia
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease