DES polyclonal antibody

Catalog # PAB12678 Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DES.
Immunogen	A synthetic peptide corresponding to residues surrounding T76/T77 of human DES.
Host	Rabbit
Theoretical MW (kDa)	55
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes ~55 KDa of human DES without phosphorylated Thr76/Thr77. It does not recognize phosphorylated peptides confirmed by dot blot.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — DES

Entrez GeneID	1674
Gene Name	DES
Gene Alias	CMD1I, CSM1, CSM2, FLJ12025, FLJ39719, FLJ41013, FLJ41793
Gene Description	desmin
Omim ID	125660 601419 604765
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a muscle-specific class III intermediate filament. Homopolymers of this protein form a stable intracytoplasmic filamentous network connecting myofibrils to each other and to the plasma membrane. Mutations in this gene are associated with desmin-related myopathy, a famili al cardiac and skeletal myopathy (CSM), and with distal myopathies. [provided by RefSeq
Other Designations	OTTHUMP00000064865|intermediate filament protein

Publication Reference

- Protein kinase C-mediated desmin phosphorylation is related to myofibril disarray in cardiomyopathic hamster heart.

  Huang X, Li J, Foster D, Lemanski SL, Dube DK, Zhang C, Lemanski LF.

  Experimental Biology and Medicine (Maywood, N.J.) 2002 Dec; 227(11):1039.

- Protein kinase C phosphorylation of desmin at four serine residues within the non-alpha-helical head domain.

  Kitamura S, Ando S, Shibata M, Tanabe K, Sato C, Inagaki M.

  The Journal of Biological Chemistry 1989 Apr; 264(10):5674.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Hypertrophic cardiomyopathy (HCM)

Disease

- Cardiomyopathy
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema