

## Product datasheet for **AM20619PU-N**

### Desmin (DES) Mouse Monoclonal Antibody [Clone ID: DES-82]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	DES-82
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 2 µg/ml. Immunohistochemistry on paraffin sections: 2 - 4 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Desmin from pig stomach
Specificity:	This antibody reacts to Desmin.
Formulation:	1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.2% sodium acetate or neutral PBS
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	desmin
Database Link:	<a href="#">Entrez Gene 13346 Mouse</a> <a href="#">Entrez Gene 64362 Rat</a> <a href="#">Entrez Gene 1674 Human P17661</a>



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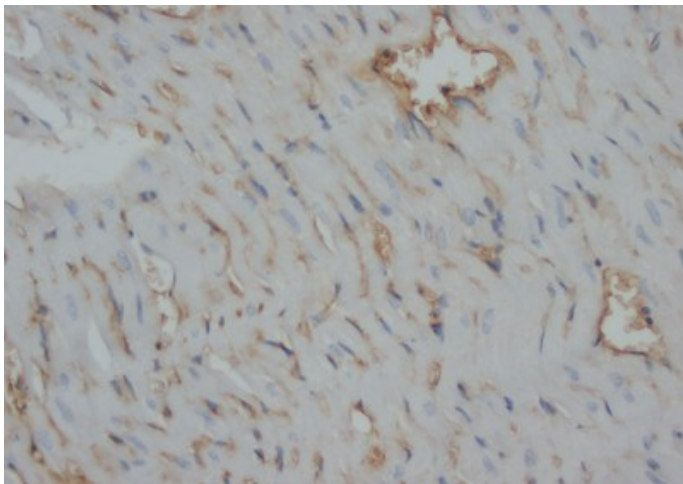
**Background:** Desmin belongs to the type III family of intermediate filaments, a class of cytoskeletal elements. DES gene encodes desmin, a muscle-specific cytoskeletal protein found in smooth, cardiac, and heart muscles. Tidball (1992) found that desmin was codistributed with actin thin filaments within the cellular processes of myotendinous junctions in frog skeletal muscle. DES gene contains 9 exons and spans about 8.4 kb. By in situ hybridization, Viegas-Pequignot et al. (1989) localized the gene to 2q35. Desmin mutation responsible for idiopathic dilated cardiomyopathy.

**Synonyms:** DES

**Protein Families:** Druggable Genome

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

### Product images:



Immunohistochemistry on Rat cardiac muscle