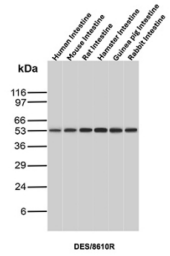
Desmin Antibody / DES [clone DES/8610R] (V4951)

Catalog No.	Formulation	Size
V4951-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4951-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4951SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

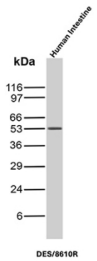
Recombinant RABBIT MONOCLONAL

Bulk quote request

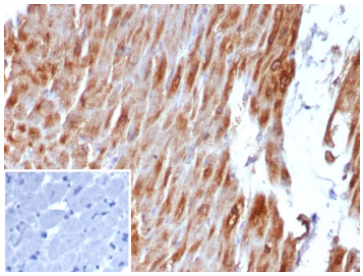
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Hamster, Rabbit, Guinea pig
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	DES/8610R
Purity	Protein A/G affinity
UniProt	P17661
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml (Human/Mouse/Rat/Hamster/Rabbit/Guinea pig)
Limitations	This Desmin antibody is available for research use only.



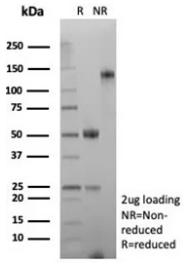
Desmin Antibody Multi-Species Intestine WB. Western blot analysis of intestine tissue lysates from human, mouse, rat, hamster, guinea pig, and rabbit using Desmin Antibody (clone DES/8610R) detects a band at approximately 53 kDa across all species, consistent with the expected molecular weight of Desmin. The conserved banding pattern supports reliable cross-species detection of this muscle-associated intermediate filament protein, reflecting its expression in smooth muscle components of intestinal tissue.



Desmin Antibody Human Intestine WB. Western blot analysis of human intestine tissue lysate using Desmin Antibody (clone DES/8610R) detects a band at approximately 53 kDa, consistent with the expected molecular weight of Desmin. The observed signal supports detection of this muscle-associated intermediate filament protein, reflecting its expression in smooth muscle components of intestinal tissue.



IHC staining of FFPE human heart muscle tissue with Desmin antibody (clone DES/8610R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Desmin antibody (clone DES/8610R) as confirmation of integrity and purity.

Description

Cytoskeletal intermediate filaments (IFs) constitute a diverse group of proteins that are expressed in a highly tissue-specific manner. IFs are constructed from two-chain Alpha-helical coiled-coil molecules arranged on an imperfect helical lattice, and have been widely used as markers for distinguishing individual cell types within a tissue and identifying the origins of metastatic tumors. Vimentin is an IF general marker of cells originating in the mesenchyme. Vimentin and Desmin, a related class III IF, are both expressed during skeletal muscle development. Desmin, a 469 amino acid protein found near the Z line in sarcomeres, is expressed more frequently in adult differentiated state tissues. Anti-desmin detects cells of normal smooth, skeletal, and cardiac muscles. Antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

This antibody can be compared with our Desmin Antibody (clone DES/2960R) for detection of desmin as a muscle marker with validation supported by gene knockdown.

Application Notes

Optimal dilution of the Desmin antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 270-470) from the human protein was used as the immunogen for the Desmin antibody.

Storage

Aliquot the Desmin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.