

BM5500P

Monoclonal Antibody to Desmin - Purified

Alternate names:

DES

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

Desmin (53 kDa) exhibits a high degree of tissue specificity, its expression being predominantly confined to all types of muscle cells (cardiac, skeletal and smooth muscle). Regulation of desmin expression is stage and tissue-specific, since it is induced during terminal development of, for example, skeletal muscle cell differentiation. In skeletal en cardiac muscle cells desmin is localized in the Z-disk region and at the intercalated disk. The expression pattern of desmin in smooth muscle is much more heterogenous.

Coexpression of vimentin and desmin has been observed in tumors derived from muscle tissue, i.e. rhabdomyosarcomas and leiomyosarcomas.

Furthermore, during myocard dysfunction dramatic changes in the distribution of desmin have been observed.

Uniprot ID:

[P17661](#)

NCBI:

[NP_001918.3](#)

GeneID:

[1674](#)

Host / Isotype:

Mouse / IgG1

Recommended Isotype Controls:

SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N

Clone:

D9

Immunogen:

Desmin isolated from Human leiomyoma.

Format:

State: Liquid, purified IgG fraction

Buffer System: PBS

Preservatives: 0.09% Sodium Azide

Applications:

Immunoblotting.

Immunohistochemistry on Frozen Sections.

Immunohistochemistry on Paraffin Embedded Sections.

Recommended Dilutions: 1/25-1/200 for immunohistochemistry with avidinbiotinylated horseradish peroxidase complex (ABC) as detection reagent) and 1/100–1/1000 for immunoblotting.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

D9 reacts exclusively with Desmin, which is expressed in smooth and striated muscle cells and their tumors e.g. rhabdomyosarcoma and leiomyosarcoma.

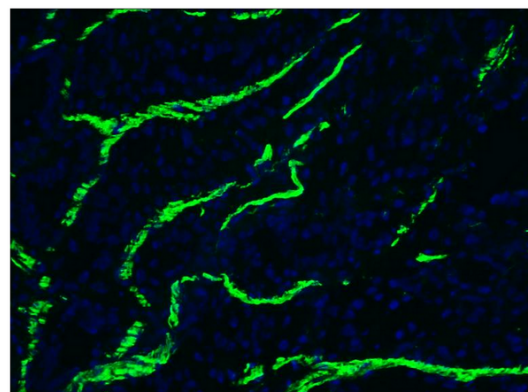
Species Reactivity:

Tested: Chicken, Human, Mouse, Rabbit, Rat, Swine.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Council L, Hameed O. Differential expression of immunohistochemical markers in bladder smooth muscle and myofibroblasts, and the potential utility of desmin, smoothelin, and vimentin in staging of bladder carcinoma. *Mod Pathol.* 2009 May;22(5):639-50. doi: 10.1038/modpathol.2009.9. Epub 2009 Feb 27. PubMed PMID: 19252475.

Pictures: Immunohistochemistry on frozen sections of swine stomach showing staining of muscle tissues



Immunohistochemistry on frozen sections of swine colon showing staining of muscle tissues

