

## Product datasheet for **BM6010P**

### Desmin Mouse Monoclonal Antibody [Clone ID: RD301]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RD301
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot.</b> <b>Immunohistochemistry on Frozen sections.</b> <b>Immunocytochemistry.</b> <i>Recommended Dilutions:</i> 1/100-1/200 for Immunohistochemistry with Avidin-Biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1/100-1/1000 for Immunoblotting applications.
Reactivity:	Canine, Chicken, Hamster, Human, Mouse, Porcine, Rabbit, Rat, Zebrafish
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Cytoskeletal desmin extract of chicken gizzard
Specificity:	RD301 reacts exclusively with Desmin, which is expressed in smooth and striated muscle cells and their tumors e.g. rhabdomyosarcoma and leiomyosarcoma.
Formulation:	PBS with 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: One year from despatch.
Database Link:	<a href="#">P02542</a>



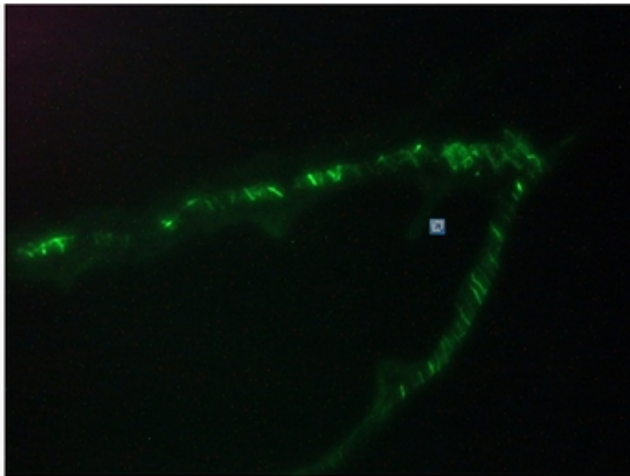
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**Background:**

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 and 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.

**Synonyms:**

DES

**Product images:**

Immunofluorescence staining of a 7 days old Zebrafish embryo.