



## HISTOPRIME<sup>®</sup>

**CatNo E057**

### Desmin

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

### Monoclonal Antibody against Desmin

#### Specificity

Desmin is an intermediate filament protein with a molecular weight of 50-55 kD. It forms the cytoskeleton of skeletal muscle together with microfilaments and microtubules. During the conversion of normal to neoplastic cells, the expression of this protein is maintained.

#### Contents

Reagents sufficient for about 60-120 tissue sections  
1 dropper bottle **HISTOPRIME<sup>®</sup> Desmin** (Bottle, 6 ml)

#### Application

The monoclonal antibody (Kon D33) with LINARIS CatNo E057 reacts with human skeletal and cardiac muscles as well as with smooth muscle cells. It shows broad interspecies reactivity, so that desmin is recognized in rat, chicken and hamster in addition to human protein. Other intermediate filaments are not labeled.

#### Abnormal Tissue

The antibody is suitable for the identification of rhabdomyosarcomas and leiomyosarcomas.

#### Fusion Partners

The monoclonal antibody was obtained from culture supernatant of mouse hybridoma cells and is available in ready-to-use stabilized form.

E057-230109-1/2



## HISTOPRIME<sup>®</sup>

CatNo E057

### Characterization

<b>Antigen</b>	Purified desmin from human muscle
<b>Specificity</b>	Desmin in striated, smooth and cardiac muscle cells.
<b>Abnormal Tissues</b>	Soft tissue sarcomas Rhabdomyosarcoma Leiomyosarcoma
<b>Cross-reactivity</b>	Human, hamster, chicken, rat, etc.
<b>Clone</b>	D33
<b>Isotype</b>	Mouse IgG1
<b>Pretreatment</b>	Do not perform proteolytic pretreatment. (Such pretreatment may destroy the antigen!).
<b>Incubation Period</b>	1 hour by room temperature
<b>Control Tissue</b>	Appendix
<b>Application</b>	Ready-to-use in PBS, BSA, NaN <sub>3</sub> (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.
<b>Recommended Secondary Reagents</b>	<b>Alkaline Phosphatase</b> Vectastain <sup>®</sup> ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector <sup>®</sup> Red (Vector CatNo SK-5100). <b>Peroxidase</b> Vectastain <sup>®</sup> ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109 ).
<b>References</b>	1. Van Muijen G. N. P., Ruiter D. J., and Warnaar S. O. (1987) Coexpression of intermediate filament polypeptides in human fetal and adult tissues. <i>Lab. Invest.</i> 57; 359-369. 2. Pitt M. A., Roberts I. S. D., Agbamu D. AA., and Eyden B. P. (1993) The nature of atypical multinucleated stromal cells: a study of 37 cases from different sites. <i>Histopathol.</i> 23; 137-145.

**Differential identification is aided by the results from a panel of antibodies. Interpretation must be made within the context of the patient's clinical history and other diagnostics tests by a qualified pathologist.**

**(\*)Note**                      **E057 contains Sodium Azide; take adequate precautions!**

E057-230109-2/2

**For Research use only. Not for use in diagnostic procedure**