**Intended Use:**
For In Vitro Diagnostic Use

**Summary and Explanation:**
Desmin recognizes a 53 kDa intermediate filament protein that is identified as desmin. This MAb is highly specific to desmin and shows no cross-reaction with other intermediate filament proteins. Antibody to desmin reacts with striated (skeletal and cardiac) muscle, as well as smooth muscle cells. In skeletal and cardiac muscles, the staining is confined to the Z-bands giving a characteristic striated appearance. Anti-desmin antibody is useful in identification of tumors of myogenic origin. It reacts with leiomyosarcomas (smooth muscle) as well as rhabdomyosarcomas (striated muscle). Biocare’s D33 MAb is excellent for staining of formalin-fixed paraffin-embedded tissues.

**Principle of Procedure:**
Antigen detection in tissues and cells is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labeling the antigen with a primary antibody, a secondary antibody is added to bind to the primary antibody. An enzyme label is then added to bind to the secondary antibody; this detection of the bound antibody is evidenced by a colorimetric reaction.

**Source:** Mouse monoclonal

**Species Reactivity:** Human, mouse and rat

**Clone:** D33

**Isotype:** IgG1 / kappa

**Antibody Category:** Sarcoma

**Epitope/Antigen:** Desmin

**Total Protein Concentration:** ~10 mg/ml. Call for lot specific Ig Concentration.

**Cellular Localization:** Cytoplasmic

**Positive Control:** Leiomyoma, leiomyosarcoma, rhabdomyosarcoma

**Normal Tissue:** Uterus

**Abnormal Tissue:** Leiomyosarcoma

**Known Applications:**
Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:** Buffer with protein carrier and preservative.

**Storage and Stability:**
Store at 2°C to 8°C. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.
Troubleshooting:
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

Limitations and Warranty:
There are no warranties, expressed or implied, which extend beyond this description. Biocare is not liable for property damage, personal injury, or economic loss caused by this product.

References: