



HISTOPRIME[®]

CatNo E024

Vimentin (VIM 3B4)

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

Monoclonal Antibody against Vimentin

Specificity

Vimentin is an intermediate filament with a relative molecular mass of 57kD. It forms, together with microfilaments and microtubules, the cytoskeleton of non-epithelial cells, e.g. non-muscle mesenchymal cells and cells of mesenchymal origin including vascular smooth muscle, astrocytes and numerous cultured cell lines. It frequently co-occurs with other intermediate filaments such as desmin.

Expression of this protein is retained during the conversion of normal to neoplastic cells.

Contents

Reagents sufficient for about 60-120 tissue sections
1 dropper bottle **HISTOPRIME[®] Vimentin** (Bottle, 6 ml)

Application

The monoclonal antibody E024 (VIM 3B4) reacts with human vimentin as well as with vimentin in mouse, rat, bovine, chicken and amphibian. It recognizes tumors of mesenchymal origin, e.g., sarcomas including myosarcomas, lymphomas, and melanomas. Proteolytic pretreatment is required after formaldehyde fixation. **Alternative without pronase treatment: LINARIS CatNo E034.**

Fusion Partners

BALB/c mice were immunized with vimentin (from bovine lentils). Spleen cells from these animals were fused to a tumor cell line. Ascites-derived antibodies were purified by affinity chromatography on protein A-Sepharose.

E024-220109-1/2



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Characterization

Antigen	Purified vimentin from bovine lentils
Specificity	Human vimentin
Abnormal Tissues	Tumor of mesenchymal origin such as sarcomas, myosarcomas, lymphomas, melanomas.
Clone	VIM 3B4
Isotype	Mouse IgG2a
Pretreatment	For formaldehyde-fixed paraffin material, apply 0.1% Pronase (LINARIS CatNo E110) for 10 min at room temperature.
Incubation Period	1 hour at room temperature after pretreatment with pronase. (Overnight incubation at 37°C necessary if no proteolytic pretreatment was performed!)
Control Tissue	Prostate or appendix
Application	Ready-to-use in PBS, BSA, NaN ₃ (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.
Recommended Secondary Reagents	Alkaline Phosphatase Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Peroxidase Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).

References

1. Franke W.W., E. Schmid, S. Winter, M.Osborne, K.Weber, Exp. Cell Res. 25-46 (1979)
2. Lazarides E., Nature 283; 249-256 (1980)
3. Lazarides E., Ann. Rev. Biochem. 51; 219-250 (1982)
4. Osborn M., K.Weber, Laboratory Investigation 48, 372-394 (1983)
5. Toelle H.-G., K. Weber, M. Osborn, M. Eur. Cell Biol. 38; 234-244 (1985)

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 E024 contains Sodium Azide; take adequate precautions!

E024-220109-2/2

For Research use only. Not for use in diagnostic procedure

Manufacturer

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FIT FOR SCIENCE

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