



## HISTOPRIME<sup>®</sup>

**CatNo E034**

## Vimentin (V9)

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

## Monoclonal Antibody against Vimentin

### Specificity

Vimentin is a protein with a molecular mass of 57kD. It forms, together with microfilaments and microtubules, the cytoskeleton of non-epithelial cells, e.g. non-muscular mesenchymal cells and cells of mesenchymal origin including vascular smooth muscle, astrocytes and numerous cultured cell lines. It frequently occurs together with desmin.  
Expression of this protein is retained during the conversion of normal to neoplastic cells.

### Contents

Reagents sufficient for about 50-100 tissue sections  
1 dropper bottle **HISTOPRIME<sup>®</sup> Vimentin (V9)** (Bottle, 5 ml)

### Application

The monoclonal antibody E034 reacts with human vimentin as well as with vimentin in pig, chicken and rat. It recognizes tumors of mesenchymal origin, e.g. sarcomas and malignant lymphomas.  
Importantly for its application, this antibody does not require pretreatment with pronase. For formaldehyde-fixed material, the intensity of the staining may be indicative of the fixation time. To be independent of this, preparation with HISTOSAFE-Enhancer E7000 may be useful.

### Fusion Partners

BALB/c mice were immunized with vimentin (from pig eye lens). Spleen cells from these animals were fused with a tumor cell line. The resulting hybridoma cells were used for ascites production.

E034-230109-1/2





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### Characterization

<b>Antigen</b>	Vimentin from pig eye lens.
<b>Specificity</b>	The antibody reacts with vimentin from human, pig, chicken and rat.
<b>Abnormal Tissues</b>	Vimentin expressing tumors including sarcomas, lymphomas, melanomas.
<b>Clone</b>	V9
<b>Isotype</b>	Mouse IgG1
<b>Pretreatment</b>	Pre-treatment with proteolytic enzymes not required! HISTOAFE-ENHANCER (LINARIS CatNo. E7000 can improve the results).
<b>Incubation Period</b>	1 hour at room temperature
<b>Control Tissue</b>	Human tonsil
<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).

### References

1. Lazarides, E., Nature 283, 249 – 256 (1980)
2. Franke, W.W., E. Schmid, S. Winter, M. Osborn, K. Weber, Exp. Cell Res.123, 25-46 (1979).
3. Lazarides, E., Ann.Rev.Biochem.51, 219-250 (1983).
4. Osborn, M., K. Weber, Laboratory Investigation 48, 372-394 (1983)
5. Toelle, H.-G., K. Weber, M. Osborn, M Eur.Cell Biol.38, 2334-244 (1985)
6. Heid, H.W., Moll I., and Franke, W.W. Differentiation 37, 137-157 (1988)

**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**                      **E034 contains Sodium Azide; take adequate precautions!**

E034-230109-2/2

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

