

**Mouse Anti-Vimentin,**  
**monoclonal**

**CatNo** **K034**

BatchNo: See Label  
Expiration Date: See Label  
Storage: 2-8°C for 1 month  
-20°C for longer

<b>Clone Number:</b>	V9
<b>Volume/Quantity:</b>	0.1 ml
<b>Product Form:</b>	Ascites fluid - liquid
<b>Preservatives Stabilisers:</b>	15 mM Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen:</b>	Vimentin purified from porcine eye lens
<b>Fusion Partners:</b>	Spleen cells of immunised BALB/c mice were fused with cells from a mouse myeloma cell line.
<b>Isotype:</b>	IgG1 (Mouse)
<b>Specificity:</b>	K034 recognises vimentin, a 57kD molecule that forms part of the cytoskeleton of non-epithelial cells. It is expressed by a range of cell types including smooth muscle cells from blood vessel walls, astrocytes and various cell lines. The antibody may be used to recognise tumours of mesenchymal origin such as sarcoma and lymphoma.
<b>Species Cross Reactivity:</b>	Clone V9 is reported as being suitable for use in Western blotting (6). Bovine, Cat, Chicken, Dog, Guinea Pig, Horse, Human, monkey, Rabbit, Rat, Swine.

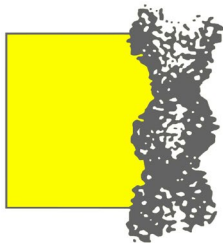
**Applications:** Suggested Working Dilution

Application	Result	Suggested Working Dilution
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/500 – 1/750
Immunohistology-paraffin	Yes	1/500 – 1/750
Immunofluorescence	Yes	1/40
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Yes	1/400
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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**Immunohistology**

**Positive control:** Human skin  
**Recommended Secondary Reagents:** F(ab')<sub>2</sub> rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B) Vectastain<sup>®</sup> ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector<sup>®</sup> Red (Vector CatNo SK-5100).  
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).  
**Recommended Negative Controls:** Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

**Westernblotting**

**Chemiluminescent Substrate:** DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (Vector CatNo SK-6605) and Peroxidase (POD) (Vector CatNo SK-6604).

**References**

1. Heid, H.W. et al. (1988) Patterns of expression of trichocytic and epithelial cytokeratins in mammalian tissues. I. Human and bovine hair follicles. *Differentiation* 37: 137-157.
2. Joling, P. et al. (1996) Immunohistochemical demonstration of cellular antigens of the cat by anti-human antibodies. *Vet. Immunol. Immunopathol.* 53: 115-127.
3. Komuro, T. et al. (1996) Anti-c-Kit protein immunoreactive cells corresponding to the interstitial cells of Cajal in the guinea-pig small intestine. *J. Auton. Nerv. Syst.* 61: 169 - 174.
4. Ando, H. et al. (1999) Cardiac microvascular endothelial cells express alpha-smooth muscle actin and show low NOS III activity. *Am. J. Physiol.* 276 (5 Pt 2): H1755 -68.
5. Josephsen, K. et al. (1999) Selective but nonspecific immunolabeling of enamel protein-associated compartments by a monoclonal antibody against vimentin. *J. Histochem. Cytochem.* 47 (10): 1237 - 1245.
6. Sanderson, J. et al. (2000) A human lens model of cortical cataract: Ca<sup>2+</sup>-induced protein loss, vimentin cleavage and opacification. *Invest. Ophthalmol. Vis. Sci.* 41: 2255 - 2261.

**Storage Conditions:** Store at 2-8°C for one month or at -20°C for longer!  
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.  
**Shelf Life:** 12 months from date of reconstitution.  
**Health and Safety Information:** (A full Health and Safety assessment is available upon request)  
This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**For Research purposes only. Not for therapeutic or diagnostic use.**

