



Mouse anti-Vimentin

**Cat. No.: MSK023 (1 ml Concentrate); MSK023-05 (0.5 ml Concentrate);
MSG023 (6 ml Ready-to-use)**

Instructions for use

Intended use

This antibody is designed for the specific localisation of Vimentin in formalin-fixed, paraffin-embedded tissue sections.

Anti-Vimentin antibody is intended for in vitro diagnostic use.

Specifications

Specificity:	Anti-human Vimentin
Clone:	V9
Isotype:	Mouse IgG1
Species reactivity:	Human +, others not tested

Summary and Description

Vimentin is the most dominant intermediate filament of mesenchymal or mesenchymal-derived non-muscle cells. It is found i.e. in endothelial cells, all fibroblastic cells, macrophages, lymphocytes, melanocytes, and Sertoli cells. All lymphomas and sarcomas are expressing Vimentin.

In many epithelial cells and thereof derived carcinomas one found co-expression of Vimentin and cytokeratins.

Staining of Vimentin is especially utilised when characterising metastases of unknown origin.

Additionally, this Vimentin antibody of clone V9 is excellently suitable for checking the degree of fixation of formalin-fixed tissue samples (Battifora 1991).

Reagent provided

Mouse monoclonal antibody in TBS with carrier protein and preservative for stabilisation in the following formats:

Concentrate:	1 ml	(Cat. No. MSK023)
Concentrate:	0.5 ml	(Cat. No. MSK023-05)
Ready-to-use:	6 ml	(Cat. No. MSG023)

Dilution of primary antibody

Dilution of Zytomed Systems' concentrated antibody depends on the detection system used. The final working dilution must always be determined by the user. The validation of staining protocol should be done by an experienced specialist. For Zytomed Systems' recommendations see chapter 'Staining procedure'.

Storage and handling

The antibody should be stored at 2-8°C without further dilution.

Dilutions of the concentrated antibody should be done with a suitable antibody dilution buffer (e.g. ZUC025 from Zytomed Systems). The diluted antibody should be stored at 2-8°C after use. Stability of this working solution depends on various parameters and has to be confirmed by appropriate controls. The antibody provided is suitable for use until the expiry date indicated on the label, if stored at 2-8°C. Do not use product after the expiry date.

Positive and negative controls should be run simultaneously with all specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the antibody is suspected, contact Zytomed Systems' technical support or your local distributor.

Precautions

Use through qualified personnel only.

Wear protective clothing to avoid contact of reagents and specimens with eye, skin and mucous membranes. If reagents or specimens come in contact with sensitive area, wash with large amounts of water.

Microbial contamination of the reagent must be avoided, since otherwise non-specific staining may occur.

ProClin300 and sodium azide (NaN_3), used for stabilisation, are not considered hazardous materials in the concentrations used. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Sodium azide should be discarded in a large volume of running water to avoid formation of deposits. Material safety data sheets (MSDS) are available upon request.

Staining procedure

Refer to the following table for conditions specifically recommended for this antibody. Also refer to detection system data sheets for guidance on specific staining protocols or other requirements.

Parameters	Zytomed Systems recommendations
*Pre-treatment	Heat Induced Epitope Retrieval in Citrate Buffer pH 6.0)
*Control tissue	Melanoma
*Working dilution	1:100-1:200 (for concentrates)
*Incubation time	30 minutes

Quality control

The recommended positive control tissue for this antibody is melanoma. We recommend carrying out a positive and a negative control with every staining run. Please refer to the instructions of the detection system for guidance on general quality control procedures.

Troubleshooting

If you observe unusual staining or other deviations from the expected results please read these instructions carefully, refer to the instructions of the detection system for relevant information or contact your local distributor.

Expected results

This antibody stains positive in cells of mesenchymal origin in formalin-fixed, paraffin-embedded tissue sections. Interpretation of the staining results is solely the responsibility of the user. Any experimental result should be confirmed by a medically established diagnostic procedure.

Limitations of the Procedure

Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining, for example variations in fixation and embedding or the inherent nature of the tissue can cause inconsistent results (Nadji and Morales, 1983). Endogenous peroxidase, pseudoperoxidase activity in erythrocytes or biotin may cause non-specific staining depending on the detection system used. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive results with HRP (horse radish peroxidase) detection systems (Omata *et al*, 1980). Inadequate counterstaining and mounting can influence the interpretation of the results.

Zytomed Systems warrants that the product will meet all requirements described from its shipping date until the expiry date is reached, if the product is stored and utilised as recommended. No additional guarantees can be given. Under no circumstances shall Zytomed System be liable for any damages arising out of the use of the reagent provided.

Performance characteristics

Zytomed Systems has conducted studies to evaluate the performance of the antibody for use with a standard detection system. The product has been found to be sensitive and specific to the antigen of interest with minimal or no cross-reactivity.

Bibliography

Battifora H. Am J Clin Pathol 96:669-671, 1991
Churg A et al. Am J Surg Pathol 9:360-365, 1985
Urban K, Acta Histochem. 1994 Dec;96(4):365-77
Nadji M and Morales AR. Ann N.Y. Acad Sci 1983; 420:134-139
Omata M et al Am J Clin Pathol 1980; 73: 626-632

Azumi N und Battifora H. Am J Clin Pathol 88:286-296, 1987
Jasani B et al. Virchows Arch A Pathol Anat Histopathol 406: 441-448, 1985
Mullink H S et al. Virchows Arch B Cell Pathol Incl Mol Pathol 52:55-65, 1986
Carbone A, et al. Virchows Arch A Pathol Anat Histopathol. 1990;417:43-8



www.zytomed-systems.de
Zytomed Systems GmbH • Anhaltinerstraße 16 •
14163 Berlin, Germany • Tel: (+49) 30-804 984
990

Explanations of the symbols on the product

label

Symbols are used in accordance with ISO 15223-1. Further symbols on the product label might be:



RUO

GSH07: Warning / Attention

For Research Use Only