

## **MUM1, 7 ml Ready to use**

**Clone: MRQ-8**

**Cat. no.: MON-RTU1217**

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### **Specificity**

MUM1 (multiple myeloma oncogene-1)/IRF4 (interferon regulatory factor 4) is a 50 kDa protein encoded by MUM1 gene, and a member of the interferon regulatory factor family of transcription factors. MUM1/IRF4 is expressed in the nuclei and cytoplasm of plasma cells and a small percentage of germinal center (GC) B-cells located in the "light zone". This antibody stains MUM1 protein, which is expressed in a subset of B-cells in the light zone of the germinal center, plasma cells, activated T-cells and a wide spectrum of related hematolymphoid neoplasms derived from these cells. Therefore, this antibody is useful for the subclassification of lymphoid malignancies and an excellent marker for Hodgkin's and Reed-Sternberg cells of classic Hodgkin's disease in combination with anti-CD30.

### **Immunoglobulin type**

Mouse IgG1

### **Use**

Paraffin, Frozen

### **Preparation and Pretreatment**

1. Cut 3-4  $\mu\text{m}$  section of formalin-fixed paraffin-embedded tissue and place on positively charged slides; dry overnight at 58 °C.
2. Deparaffinize, rehydrate, and epitope retrieve; the preferred method is the use of Heat Induced Epitope Retrieval (HIER) techniques in conjunction with a pressure cooker. The preferred method allows for simultaneous deparaffinization, rehydration, and epitope retrieval. Upon completion, rinse with 5 changes of distilled or deionized water.
3. If using HRP detection system, place slides in peroxide block for 10 minutes; rinse. If using AP detection system, omit this step.

### **Positive control**

B-CLL, plasma cell myeloma, tonsil

### **Staining pattern**

Nuclear, cytoplasmic

### **Presentation**

7 ml. prediluted. Ready to use

Anti-MUM1 is a mouse monoclonal antibody from tissue culture supernatant diluted in phosphate buffered saline, pH 7.4, with protein base, and preserved with sodium azide.

**MONOSAN, a brand name of SANBIO B.V.**

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## Storage & handling

Store antibody at 2-8°C until expiry date. For extended storage, the solution may be frozen in suitable aliquots. Avoid freeze/thaw cycles.

## References:

1. Alizadeh AA, Eisen MB, et al. Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling. *Nature* 2000;403:403503-11.
2. Falini B, Fizzotti M, et al. A monoclonal antibody (MUM1p) detects expression of the MUM1/IRF4 protein in a subset of germinal center B cells, Plasma cells, and activated T cells. *Blood*. 2000 Mar 15;95(6):2084-92.
3. Gaidano G, Carbone A. MUM1: a step ahead toward the understanding of lymphoma histogenesis. *Leukemia*. 2000 Apr; 14(4):563-6
4. Natkunam Y, Warnke RA, et al. Analysis of MUM1/IRF4 protein expression using tissue microarrays. *Mod pathol*. 2001 Jul; 14(7):686-94.
5. Carbone A, Ghoghini A, et al. Expression pattern of MUM1/IRF4 in the spectrum of pathology of Hodgkin's disease. *Br J Haematol*. 2002 May; 117(2):366-72.
6. Chang CC, Lorek J, et al. Expression of MUM1/IRF4 correlates with clinical outcome in patients with B-cell chronic lymphocytic leukemia. *Blood*. 2002 dec. 15;100(13):4671-5.

## Also available on request:

1 ml, prediluted      Ready to use  
0.1 ml, concentrate 1:100 -1:500\*  
0.5 ml, concentrate 1:100 -1:500\*  
1 ml, concentrate    1:100 -1:500\*

\* The dilutions set forth above are estimates; actual results may differ because of variability in methods and protocols. Validation of antibody performance/protocol is the responsibility of the end user.

**FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.**

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