CE IVD

# Rabbit and Mouse HSV-Cocktail (HSV I + HSV II)

## Cat. No.: COG006 (6 ml Ready-to-use)

## Instructions for use

**Intended use**
This antibody cocktail is designed for the specific localisation of *HSV* infected cells in formalin-fixed, paraffin-embedded tissue sections. HSV-Cocktail is intended for in vitro diagnostic use.

**Specifications**

| | |
|---|---|
| **Specificity:** | HSV I and HSV II (HSV = *Herpes simplex* virus) |
| **Immunogens:** | HSV I: HSV I infected (strain Mac Intyre) rabbit corneal cells<br>HSV II: HSV II (strain Parker) |
| **Clones** | polyclonal (HSV I) and DBM15.69 (HSV II) |
| **Isotypes:** | Rabbit Ig (HSV I) und mouse IgG1 (HSV II) |
| **Species reactivity:** | HSV I and II |

**Summary and description**
The antibody cocktail reacts with HSV type I and II specific antigens and with antigens common to HSV type I and II virus. It reacts with all the major glycoproteins present in the viral envelope as well as with at least one core protein.

**Reagent provided**
Mixture of rabbit polyclonal antibody and mouse monoclonal antibody in buffer with carrier protein and preservative for stabilisation in the format:

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**Dilution of primary antibody**
None

**Storage and handling**
The antibody cocktail should be stored at 2-8°C without further dilution.
If necessary, dilutions of the antibody should be done in 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 cocktail 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.
Sodium azide ($NaN_3$), used for stabilisation, is not considered hazardous material in the concentration used. Reaction of sodium azide with lead or copper in drainage pipes can result in the formation of highly explosive metallic azides. Discard the antibody solution in a large volume of running water to avoid formation of deposits. A material safety data sheet (MSDS) for the pure substances is 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 (for example in EDTA Buffer pH 9.0) |
| *Control tissue: | with *Herpes simplex* Virus infected tissue |
| *Working dilution: | none |
| *Incubation time: | 60 minutes |

To detect both antibodies of the cocktail, a detection system that recognizes primary antibodies from mouse and rabbit must be used.

**Quality control**
The recommended positive control tissue for this antibody is HSV infected tissue. 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**
The antibody cocktail stains positive in the cytoplasm and nuclei of HSV infected cells of formalin-fixed paraffin-embedded tissue. 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:**
Adams et al. J Pathol 143:241, 1984
Vestergaard et al. Acta Pathol Microbiol Scand 87(B):261, 1979.
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

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**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:

GSH07: Warning / Attention

**RUO** For Research Use Only