

Recombinant HSV1 + HSV2 (Herpes Simplex Virus I & II) Antibody

Rabbit Monoclonal Antibody [Clone HSV/12630R]

Catalog No	Format	Size
RBM1-12630-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
RBM1-12630-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
RBM1-12630-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	HSV/12630R
Gene Name	
Immunogen	Recombinant fragment corresponding to HSV-1 ICP8 protein and Recombinant fragment corresponding to HSV-1/2 glycoprotein D protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	59kDa; 128 kDa
Cellular Localization	Host nucleus, Virion membrane
Species Reactivity	HSV1 (Herpes Simplex Virus 1), HSV2 (Herpes Simplex Virus 2)
Positive Control	HSV infected cells or tissue

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant HSV1 + HSV2 (Herpes Simplex Virus I & II) Antibody

Specificity & Comments

This **recombinant rabbit monoclonal antibody cocktail** is designed for the sensitive and specific detection of herpes simplex virus (HSV) by targeting two essential viral proteins: **ICP8 from HSV-1** and **glycoprotein D (gD) from HSV-1 and HSV-2**. ICP8 is a single-stranded DNA-binding protein that plays a pivotal role in HSV-1 DNA replication, recombination, and repair, acting as a critical component of the viral replication machinery. It promotes homologous recombination, facilitates strand exchange, and interacts with multiple viral and host factors essential for viral genome processing. Glycoprotein D (gD) is a key envelope protein required for HSV attachment and entry into host cells, binding to specific cellular receptors and triggering membrane fusion. This interaction is essential for viral infectivity and determines host cell tropism, with gD mutations significantly altering viral entry efficiency. While both HSV-1 and HSV-2 utilize gD for cellular entry, HSV-2 is the predominant cause of genital herpes, a lifelong and incurable condition primarily transmitted through sexual contact. By simultaneously detecting ICP8 and gD, this antibody cocktail enables comprehensive HSV identification across serotypes, ensuring high sensitivity and specificity. The recombinant rabbit monoclonal format provides unmatched reproducibility and specificity, eliminating variability associated with traditional antibodies and making this cocktail an optimal choice for pathology and virology studies.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Infectious Disease