



Anti-ICP4 (Trans-acting transcriptional protein ICP4) Polyclonal Antibody

Category: Polyclonal Antibody

Catalog: AB3L152

Antigen Synonym: IE175 (Infected cell protein 4; Transcriptional activator IE175; Alpha-4 protein)

Species Reactivity: Human herpesvirus 2

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of Human herpesvirus 2 ICP4 (Trans-acting transcriptional protein ICP4)

Description: ICP4 (Trans-acting transcriptional protein ICP4) is a transcriptional transactivator that binds with high affinity to the sequence 5'-ATCGTC-3'. ICP4 may interact with and recruit specific components of the general transcription machinery to viral promoters and stabilize their formation for transcription initiation. ICP4 negatively regulates its own transcription. This immediate early (EI) protein may be necessary in virion for viral pathogenesis. ICP4 is a homodimer and interacts with transcriptional regulator ICP27; this interaction is required for proper incorporation of ICP4 into virions. The long stretch of Ser is a major site of phosphorylation. Only the phosphorylated forms are capable of interacting with beta or gamma genes. ICP4 belongs to the herpesviridae ICP4/IE140/IE180 family.

Reference:

Dolan,A., et al, J. Virol. 72 (3), 2010-2021 (1998)
McGeoch,D.J., et al, J. Gen. Virol. 68 (PT 1), 19-38 (1987)
Everett,R.D. and Fenwick,M.L., J. Gen. Virol. 71 (PT 6), 1387-1390 (1990)
McGeoch,D.J., et al, J. Gen. Virol. 72 (PT 12), 3057-3075 (1991)
Barnett,B.C., et al, J. Gen. Virol. 73 (PT 8), 2167-2171 (1992)

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