Recombinant Cytomegalovirus phosphoprotein-28 (pp28/UL99)
Cat no ABC2662

Source:
E.Coli

Background:
The human cytomegalovirus UL99-encoded pp28 is a myristylated phosphoprotein that is a constituent of the virion. The pp28 protein is positioned within the tegument of the virus particle, a protein structure that resides between the capsid and envelope. In the infected cell, pp28 is found in a cytoplasmic compartment derived from the Golgi apparatus, where the virus buds into vesicles to acquire its final membrane.

Description:
The protein contains the CMV-pp28 immunodominant regions, amino acids:(130-160). CMV-pp28 is purified by proprietary chromatographic techniques.

Purification method:
Purified by proprietary chromatographic technique.

Purity:
Recombinant CMV-pp28 is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

Formulation:
1mg/ml in 25 mM Tris-Hcl pH 8.0, 1 mM EDTA and 50% glycerol.

Storage:
Recombinant CMV-pp28 is shipped at ambient temperature. Upon arrival, Store at -20C.

Stability:
Recombinant CMV-pp28 is stable 5 years frozen, One month in solution at room temperature.

Specificity:
Immunoreactive with sera of CMV-infected individuals

Application:
Recombinant CMV-pp28 Antigen may be used in ELISA and Western blots, excellent for detection of CMV with minimal specificity problems.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
Latest Publications:

2. Rapid genetic engineering of human cytomegalovirus by using a lambda phage linear recombination system: demonstration that pp28 (UL99) is essential for production of infectious virus.

3. Human cytomegalovirus UL99-encoded pp28 is required for the cytoplasmic envelopment of tegument-associated capsids.

4. Late temporal gene expression from the human cytomegalovirus pp28US (UL99) promoter when integrated into the host cell chromosome.
   J Gen Virol 2001 May;82(Pt 5):1147-55

5. Human cytomegalovirus pp28 (UL99) localizes to a cytoplasmic compartment which overlaps the endoplasmic reticulum-golgi-intermediate compartment.


For Research Use Only. Not for use in diagnostic or therapeutic procedures.