

Anti-VZV IE62 antibody, mouse monoclonal (62A)

65-350 100 µg

Shipping and Storage: Shipped at 4°C or -20°C. Store at -20°C.

Immunogen: Varicella-zoster virus Oka strain (vaccine strain)

Form: 1 mg/ml in PBS⁻ with 50% glycerol, filter sterilized. Azide- and carrier-free.

Purity: Produced by hybridoma grown in serum-free medium and purified by proprietary chromatography procedure under mild conditions. 90~95% pure by SDS-PAGE.

Isotype: mouse IgG1 κ

Reactivity: Reacts with IE62 of VZV

Applications

- 1) Western blotting (1/2,000-1/5,000)
- 2) Immunoprecipitation (1/100)
- 3) Immunofluorescence staining and Immunocytochemistry (1/50-1/100)

Not tested for other applications

Background: **Varicella Zoster Virus (VZV)** is one of eight herpesviruses known to infect humans and vertebrates. VZV only affects humans, and commonly causes chickenpox in children, teens and young adults and herpes zoster (shingles) in adults and rarely in children. VZV is known by many names, including chickenpox virus, varicella virus, zoster virus, and human herpesvirus type 3 (HHV-3).

VZV infects the nerves, and causes a wide variety of symptoms. After the primary infection (chickenpox), the virus goes dormant in the nerves, including the cranial nerve ganglia, dorsal root ganglia, and autonomic ganglia. Many years after the patient has recovered from chickenpox, VZV can reactivate to cause a number of neurologic conditions

Immediate early protein 62 (IE62) of is major transcriptional transactivator of VZV. It may interact with and recruit specific components of the general transcription machinery to viral promoters and stabilize their formation for transcription initiation. It interacts with IE4 and IE63, and with host USF and Sp1. It negatively regulates its own transcription. This immediate early protein may be necessary in virion for viral pathogenesis.

IE62 consists of 1,310 amino acids with 140 kDa mass. It is phosphorylated by ORF66 protein kinase on Ser-686 and Ser-722. It is also phosphorylated by ORF47 protein kinase and human CSNK2A1/CKII.SK

Data Link: UniProt [P09310](#) (ICP4_VZVD).

Related Product: 65-353 anti-VZV IE62 antibody (clone 62B)

Reference: This antibody has not been cited in publication.

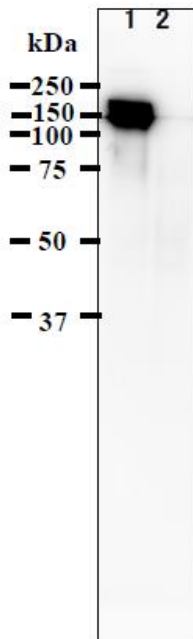


Fig.1. Identification of IE62 protein in VZV-infected cells by western blotting using anti-VZV IE62 antibody (clone 62A).

Lane 1; VZV strain pOka infected MRC-5 cell lysate

Lane 2; MRC-5 cell lysate (uninfected negative control)

The anti-VZV IE62 antibody was used at 1/5,000 dilution.

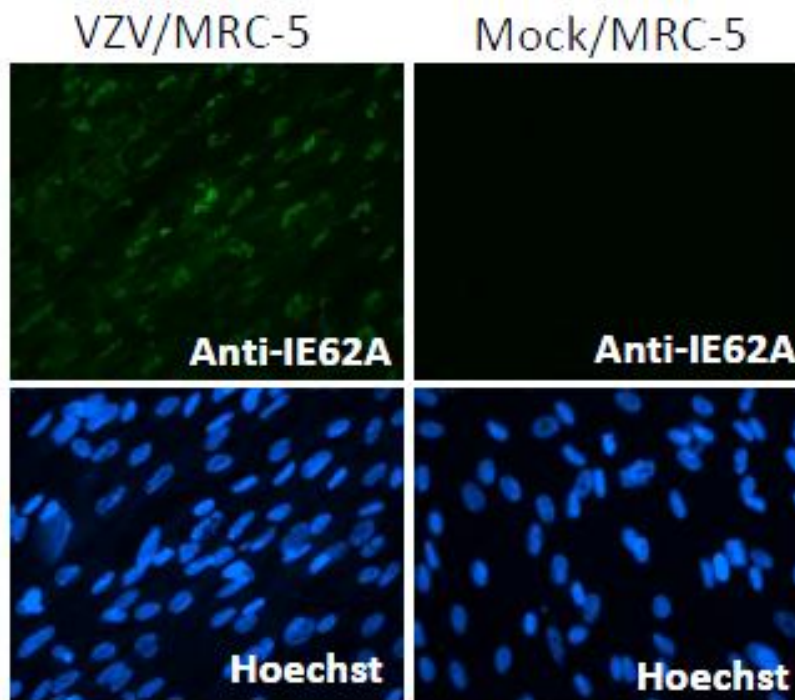


Fig.2. Immunofluorescence staining of VZV IE62 protein in VZV-infected MRC-5 cells by using anti-VZV IE62 antibody (clone 62A).

Anti-VZV IE62 antibody was used at 1/100 dilution. As second antibody, Alexa Fluor 488 donkey anti-mouse IgG [H+L] (Life Technology No. A21202) was used at 1/200 dilution.

Nuclei were stained with Hoechst 33342.