

## Recombinant VZV Ag, GE (Ellen), GST-tagged

Antigen (VZV, GE)

Cat. No: DAG518

Lot.No: (See product label)

### PRODUCT INFORMATION

**Product Overview:** Recombinant Varicella-Zoster Virus Glycoprotein E (gE), (Ellen Strain), contains the VZV gE immunodominant regions and a GST fusion partner. Immunoreactive with VZV positive sera. This amino acid sequence has 100% homology with VZV strains Dumas, MSP, VIA, VZV-32, LAX-2, LAX-1, Oka, Iceland, VZV-80-2 and VZV-VSD. It was expressed in E. coli, and purified in vitro using conventional chromatography techniques.

**Antigen Description:** Glycoproteins are proteins that contain oligosaccharide chains (glycans) covalently attached to polypeptide side-chains. The carbohydrate is attached to the protein in a cotranslational or posttranslational modification. This process is known as glycosylation. In proteins that have segments extending extracellularly, the extracellular segments are often glycosylated. Glycoproteins are often important integral membrane proteins, where they play a role in cell-cell interactions. Glycoproteins also occur in the cytosol, but their functions and the pathways producing these modifications in this compartment are less well-understood.

**Source:** *E. coli*. Strain: Ellen

**Form:** Purified, Liquid

**Purity:** >95% pure (10% PAGE coomassie staining). GS-4B Sepharose Affinity Purification.

**Applications:** Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

### BACKGROUND

**Introduction:** Varicella zoster virus (VZV) is one of eight herpes viruses known to infect humans (and other vertebrates). It commonly causes chicken-pox in children and Herpes zoster (shingles) in adults and rarely in children.

**Key words:** VZV Ag, gE (Ellen); Varicella-Zoster Virus Glycoprotein E (gE), (Ellen Strain); Glycoproteins; Varicella zoster virus; VZV; Human herpes virus 3; Envelope glycoprotein gI; GI; Glycoprotein IV; GPIV; HHV 3; HHV3; HHV3gp39; Human herpes virus 3; Membrane glycoprotein gE; Varicella Zoster Virus; VZVgE; VZVgI; Herpesviridae; Varicellovirus

### PACKAGING

**Concentration:** 1mg/ml

**Buffer:** 25mM Tris-HCl, 1mM EDTA containing 50% glycerol

**Preservative:** None

**Storage:** Store at -20°C.

### REFERENCES

1. Steiner I, Kennedy PG, Pachner AR (2007). "The neurotropic herpes viruses: herpes simplex and varicella-zoster". *Lancet Neurol* 6 (11): 1015-28.
2. Ruddock & Molinari (2006) *Journal of Cell Science* 119, 4373-4380