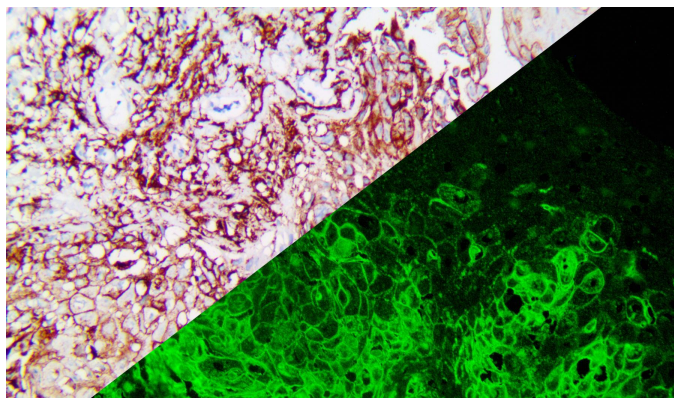


# Varicella Zoster Virus



**Clone:** SG1, SG1-1, SG2-2E6, SG3, SG4, NCP-1 & IE-62  
Mouse Monoclonal



*Inset: IHC & IF of VZV on a FFPE Infected Skin Tissue*

## Intended Use

Analyte Specific Reagent

Analytical and performance characteristics for the Varicella Zoster Virus (VZV) antibody, clone SG1, SG1-1, SG2-2E6, SG3, SG4, NCP-1 & IE-62, are not established.

## Immunogen

Varicella Zoster Virus (VZV) Ellen Strain.

## Summary and Explanation

Varicella Zoster Virus (VZV) is a member of the human herpes virus family and causes two distinct clinical manifestations: chickenpox and shingles. This antibody may have weak cross reactivity with Cytomegalovirus and *Mycoplasma pneumoniae*.

<b>Antibody Type</b>	Mouse Monoclonal	<b>Clone</b>	SG1, SG1-1, SG2-2E6, SG3, SG4, NCP-1 & IE-62
<b>Isotype</b>	Mixed	<b>Reactivity</b>	Paraffin, Frozen
<b>Localization</b>	Cytoplasmic, Membranous	<b>Species Reactivity</b>	Varicella Zoster Virus
<b>Control</b>	Varicella Zoster Virus Infected Tissue		
<b>Application</b>	Infectious Diseases		

## Presentation

Anti-Varicella Zoster Virus is a Mouse Monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

<b>Catalog No.</b>	<b>Presentation</b>	<b>Dilution</b>	<b>Volume</b>
BSB-3810-3-ASR	Predilute	Ready-to-Use	3.0 mL
BSB-3810-7-ASR	Predilute	Ready-to-Use	7.0 mL
BSB-3810-15-ASR	Predilute	Ready-to-Use	15.0 mL
BSB-3810-01-ASR	Concentrate	1:25-1:100	0.1 mL
BSB-3810-05-ASR	Concentrate	1:25-1:100	0.5 mL
BSB-3810-1-ASR	Concentrate	1:25-1:100	1.0 mL

## Control Slides Available

<b>Catalog No.</b>	<b>Quantity</b>
BSB-9425-CS	5 slides

**Storage** Store at 2-8°C (Control Slides: Store at 20-25°C)

## Precautions

1. For professional users only. Results should be interpreted by a qualified medical professional.
2. This product contains <0.1% sodium azide (NaN<sub>3</sub>) as a preservative. Ensure proper handling procedures are used with this reagent.
3. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents.
4. Dispose of unused solution with copious amounts of water.
5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
8. For additional safety information refer to the Safety Data Sheet for this product.
9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

## Stability

**This product is stable up to the expiration date on the product label.**

Do not use the after expiration date listed on the package label. Temperature fluctuations should be avoided. Store appropriately when not in use and avoid prolonged exposure to room temperature conditions.

## Specimen Preparation

**Paraffin sections:** The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033), or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

**Frozen sections and cell preparations:** The antibody can be used on acetone-fixed frozen sections and acetone-fixed cell preparations.

**This Antibody has been quality control tested by immunohistochemistry as follows**

### Quality Control Procedure for IHC

Step	ImmunoDetect or AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

### Quality control Procedure for IF

Step	Incubation Time
Rinse slides in IF wash buffer	
Drain and wipe excess IF wash buffer off slide	
Peroxidase Blocker	5 min.
Apply Antibody	5 min.
Apply Mouse/Rabbit Link	5 min.
Apply HRP Label	5 min.
*Keep FITC reagents and slides in the dark*	
Apply AmpliDetector FITC solution	5 min.
Coverslip with IF mounting medium	

## Mounting Protocols

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.

### Mounting Protocol IF:

1. Bring FluoroMounter or FluoroMounter with DAPI to room temperature.
2. Rinse slides with distilled or deionized water.
3. Remove excess water from slides before laying them flat in the dark.
4. Turn the media bottle upside down before opening the dropper bottle.
5. Apply 1-3 drops of FluoroMounter to each slide making sure the specimen is covered.
6. Incubate 3-5 minutes at room temperature in the dark.
7. Coverslip.
8. Observe under a fluorescent microscope using the appropriate filters.
9. The slides are recommended to be stored at 2-8 °C in the dark.







### Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

### References

1. Muraki, et al. Immunohistochemical study of skin lesions in herpes zoster. *Vichows Archiv A Pathol Anat* 420, 71-76 (1992). <https://doi.org/10.1007/BF01605987>
2. Nikkels A, et al. Immunohistochemical identification of varicella-zoster virus gene 63-encoded protein (IE63) and late (gE) protein on smears and cutaneous biopsies: implications for diagnostic use. *J Med Virol*. 1995 Dec;47(4):342-7. doi: 10.1002/jmv.1890470409. PMID: 8636701.
3. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012. <https://www.cdc.gov/mmwr/pdf/other/su6101.pdf>

### Symbol Key / Légende des symboles/Erläuterung der Symbole

 Storage Temperature Limites de température Zulässiger Temperaturbereich	 Manufacturer Fabricant Hersteller	 REF	Catalog Number Référence du catalogue Bestellnummer
 Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten	 Expiration Date Utiliser jusque Verwendbar bis	 LOT	Lot Number Code du lot Chargenbezeichnung