

## Recombinant Anti-SBWMV CP19 Antibody (V3S-1022-YC5292)

Cat. No.: V3S-1022-YC5292

### Summary

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| <b>Description</b>        | This product is a recombinant Mouse antibody provided by CreativeBiolabs. The antibody is specific for Soil-borne wheat mosaic virus Capsid protein P19. It can be used for SBWMV CP19 detection in Enzyme-linked Immunosorbent Assay (ELISA). It was expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultra purified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg. |
| <b>Clonality</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Host Species</b>       | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Species</b>     | Soil-borne wheat mosaic virus (SBWMV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Epitope</b>            | Located in the sequence: VNKGYTGY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>            | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype Control</b>    | C21433                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Secondary Antibody</b> | C37557; C41360; C32672; C10001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Property

|                           |                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Expression Species</b> | HEK293F or CHO Cell line                                                                                                                    |
| <b>Conjugation</b>        | Unconjugated, also available for Biotin, HRP, FITC and PE-labeled form.                                                                     |
| <b>Purity</b>             | >95%, determined by SDS-PAGE and SEC-HPLC                                                                                                   |
| <b>Endotoxin</b>          | <1 EU/mg, determined by LAL method                                                                                                          |
| <b>Purification</b>       | Purified with Protein A or G affinity chromatography                                                                                        |
| <b>Sterility</b>          | 0.2 µM filtered                                                                                                                             |
| <b>Formulation</b>        | PBS, pH 7.4                                                                                                                                 |
| <b>Preservation</b>       | No preservatives                                                                                                                            |
| <b>Stabilizer</b>         | No stabilizers                                                                                                                              |
| <b>Storage</b>            | Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics. |

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

## Applications

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**Application** ELISA

## Target

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**Target** SBWMV CP19

**Alternative Name** SBWMV CP19; Soil-borne wheat mosaic virus; SBWMV; CP19; Capsid protein P19

**Gene ID** [991050](#)

**UniProt** [Q06388](#)

**Introduction** Soil-borne wheat mosaic virus is part of the genus Furovirus. Members of this genus are characterized by rigid rod-shaped particles and positive sense RNA genomes consisting of two molecules that are packaged into separate particles that code for either replication, mobility, structure or defense against the host. Soil-borne wheat mosaic virus (SBWMV) is a rod-shaped plant pathogen that can cause severe stunting and mosaic in susceptible wheat, barley and rye cultivars.

**Research Area** Microbiology

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