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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Tobacco mosaic virus [Mab24] Bulk Size Ab03667-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: Mab24

Alternative Name(s) of Target: TMV; neotope; intact TMV virions; intact birus; Nicotiana tabacum; rAb24

UniProt Accession Number of Target Protein:

Published Application(s): neutralize, ELISA

Published Species Reactivity: Tobacco mosaic virus (TMV)

Immunogen:

Specificity: This antibody recognizes a neotope on the surface of intact Tobacco mosaic virus (TMV) particles. TMV is a positive-sense single-stranded RNA virus species in the genus Tobamovirus that infects a wide range of plants, especially tobacco. Symptoms induced by Tobacco mosaic virus (TMV) are somewhat dependent on the host plant and can include mosaic, mottling, necrosis, stunting, leaf curling, and yellowing of plant tissues.

Application Notes: Infection of transgenic F1 plants producing mAb24-P with TMV showed a reduction of necrotic lesion numbers which is correlated with the amount of antibody produced in transgenic plants. This antibody is capable of inhibiting the infectivity of the virus if TMV is adsorbed in vitro at ratios as low as 300 antibody molecules per virion prior to inoculation (Voss et al., 1995). This antibody was used in the generation of a bispecific antibody bisFcFv2429 in transgenic suspension culture cells and tobacco plants, wherein two antibodies scFcFv24 and scFcFv29 were connected by the *Trichoderma reesei* cellobiohydrolase I linker. These antibodies bind two different epitopes of TMV. The epitope specificity of this antibody was determined using ELISA (PMID: 10411643). This antibody was used for the magnetic immunodetection of TMV (PMID: 25710366). This antibody was also used in the generation of recombinant fusion proteins scFcFv24-PDGFR and scFcFv24-TcR β in transgenic tobacco suspension cultures and transgenic plants. Bioassays of viral infection showed that transgenic tobacco plants expressing scFcFv24-TcR β were resistant to TMV infection (Schillberg et al., 2000).

Antibody First Published in: Fischer et al. Affinity-purification of a TMV-specific recombinant full-size antibody from a transgenic tobacco suspension culture. *J Immunol Methods*. 1999 Jun 24;226(1-2):1-10. PMID:10410966

Note on publication: Describes the expression and purification of a recombinant anti-TMV antibody in a transgenic tobacco plant.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.