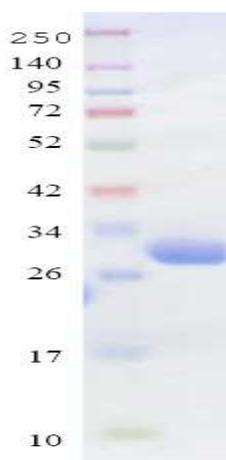


**Product Data Sheet**

□ Cat # CMV11-A	Rabbit Anti-Cucumber Mosaic Virus Coat Protein Antibody	Size: 100 ug
□ Cat# CMV15-R-100	Recombinant Cucumber Mosaic Virus Coat Protein	Size: 100 ug

Cucumber mosaic virus (CMV) is a plant pathogenic virus in the family Bromoviridae. It is a member of the genus, Cucumovirus. CMV is a linear positive-sense, single-stranded RNA virus. Its total genome size is 8.621 kb and is broken into three parts. The largest part is 3.389 kb; the second largest is 3.035 kb and the third largest is 2.197 kb. The RNA is surrounded by a protein coat consisting of 32 copies of a single structural protein which form isometric particles. The virus has a worldwide distribution and a very wide host range. It has one of the widest known host ranges of any plant virus. It can be transmitted from plant to plant both mechanically by sap and by aphids. It can also be transmitted by seeds and parasitic weeds. The virus can be diagnosed by its characteristic viral inclusion bodies. The inclusions can be rhomboidal, may appear hollow, and can form larger aggregates. The inclusions can be found in epidermal, mesophyll, and stomatal cells. Symptoms seen with the virus include leaf mosaic or mottling, yellowing, ringspots, stunting, and leaf, flower, and fruit distortion.

**Source of Immunogen and antibody**



Cucumber Mosaic virus Coat protein **CMV15-R-100** (Uniprot: P03605) was expressed in *E. coli*. It contains a c-terminal His-tag. The protein was expressed as a full-length protein. It migrates as a band of approximately 28 kDa in reducing/denaturing conditions. It is supplied in PBS+8M Urea

**Host:** Goat

**Clonality:** Polyclonal

**Purification:** Antigen affinity purified through a CMV Coat protein coupled agarose column

**Form & Storage of Antibodies**

**Affinity purified IgG**

□ 100 ug/200 ul Solution; Concentration: 0.5 mg/ml  
Supplied in PBS pH 7.4, contains no preservative or carrier proteins.

□ **Lyophilized powder**

Lyophilized from a 0.5 mg/ml formulation containing PBS, pH 7.4+3% trehalose. Reconstitute in 200 ul distilled water to 0.5 mg/ml

**Storage**

**Short-term:** 1 month at 4°C

**Long-term:** at -20°C or below in suitable aliquots after reconstitution. Glycerol may be added to a final concentration of 50% and the antibody can be stored un-aliquoted at -20°C.

**Stability:** 6-12 months at -20°C or below.

**Recommended Usages:**

**Western Blotting:** 0.5-2 ug/ml

**ELISA:** Assay dependent concentration

**Lateral flow Immunoassay:** Assay dependent concentration

**Cross reactivity:** The Coat protein used as an immunogen exhibits >80% homology across various strains of CMV. It has ~50% homology with peanut stunt virus and Tomato aspermy virus.

This product is for in vitro research use only.

**Related Material available for ADI**

Catalog#	Description
POTX15-R-25	Recombinant Potato Virus X Coat Protein
POTX11-A	Goat anti-Potato Virus X Coat Protein
POTY15-R-25	Recombinant Potato Virus Y Coat Protein
POTY11-A	Goat anti-Potato Virus Y Coat Protein
TMV11-A	Rabbit Anti-Tobacco Mosaic Virus Coat Protein antibody
TMV15-R-100	Recombinant E.coli Tobacco Mosaic virus Coat Protein (full length, >95% Pure, His-tag)

CMV11-A

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