

**Product Data Sheet**

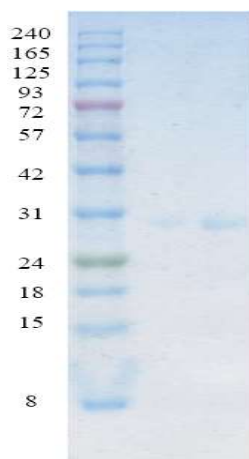
□ Cat # POTX11-A  
□ Cat# POTX15-R-25

Goat Anti-Potato Virus X Coat Protein Antibody  
Recombinant Potato Virus X Coat Protein

Size: 100 ug  
Size: 100 ug

Potato virus X (PVX) is a pathogenic plant virus belonging to the family *Alphaflexiviridae*. PVX is primarily found in potatoes and is only transmitted mechanically. The virus causes mild to no symptoms in most potatoes. When the potato is infected with both Potato Virus Y and Potato Virus X, severe symptoms can be caused in potatoes. The virus is a single-stranded positive-sense RNA virus that is wrapped in approximately 1300 units of a single coat protein.

**Source of Immunogen and antibody**



Potato Virus X Coat protein **POTX15-R-25** (Uniprot: P17782) 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 Tris, pH 8+8M Urea

Lane 1: 0.3 ug of Coat protein  
Lane 2: 0.6 ug of Coat protein

**Host:** Goat

**Clonality:** Polyclonal

**Purification:** Antigen affinity purified through a Potato Virus X 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 >90% homology across various strains of CMV. It has ~40% homology with Nerine Virus X, Yam virus X, Vanilla Virus X, White clover mosaic virus, and Papaya mosaic potexvirus

This product is for in vitro research use only.

**Related Material available for ADI**

Catalog#	Description
CMV15-R-25	Recombinant Cucumber Mosaic Virus Coat Protein
CMV11-A	Goat anti-Cucumber Mosaic Virus Coat Protein antibody
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)

POTX11-A

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