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Product datasheet for TA396873

Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**WB**: 1:500 **ELISA**: 1:1,500-1:27,000
Reactivity:	Tobacco
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This protein-A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with recombinant MBP-and-poly-His-tagged auto inactivation-resistant mutant TEV Protease.
Specificity:	This product was protein-A purified and cross-adsorbed against MBP from monospecific antiserum by chromatography. Assay by western blot showed no reactivity to MBP.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.1mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Database Link:	P04517

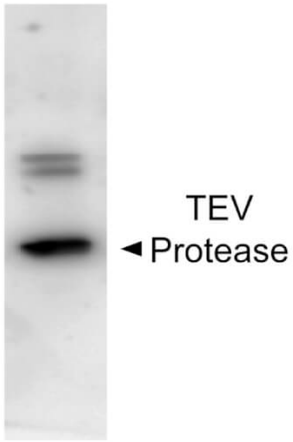
View online »

Background: TEV protease, encoded by the Tobacco Etch Virus (TEV), is a 27 kDa catalytic domain of the Nuclear Inclusion a (NIa) protein encoded by the virus (TEV). It is widely used for cleaving fusion proteins because of its sequence specificity. It recognizes a linear epitope of the general form E-Xaa-Xaa-Y-Xaa-Q-(G/S). Cleavage occurs between Q and G or Q and S. The structure of TEV protease is similar to that of the serine protease family. Like serine proteases, TEV protease utilizes a catalytic triad of residues to hydrolyze peptide bonds. The distinguishing feature of TEV protease, however, is that instead of the serine nucleophile in the triad Ser-Asp-His, there is a cysteine, which may explain the resistance of TEV protease to protease inhibitors which are commonly used. The strain used is the auto inactivation-resistant mutant S219V. The catalytic activity of the S219V mutant is approximately 2 fold greater than that of the wild-type protease.

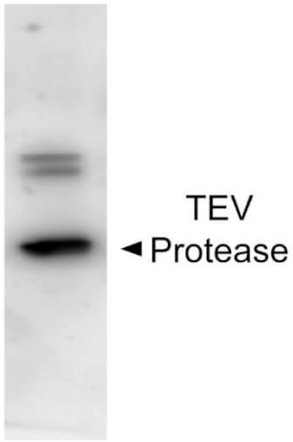
Synonyms: rabbit anti-TEV Protease Antibody, Tobacco Etch Virus, tobacco etch potyvirus, TEV, TEV Protease

Note: This protein-A purified antibody has been tested for use in western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 27 kDa in size corresponding to TEV by western blotting in the appropriate cell lysate or extract. Anti-TEV protease may be useful to detect residual TEV protease in preparations of recombinant proteins in which that protease may interfere with downstream manipulations.

Product images:



Ecoli lysate containing recombinant TEV protease was loaded on to a 4-20% gradient gel for separation. After electrophoresis, the gel was blocked with 1% BSA (p/n BSA-30) in TBS for 30min at ambient. The membrane was probed with the primary antibody at a 1:1,000 dilution in 1%BSA/TBS overnight at 4° C. For detection HRP conjugated Gt-a-Rabbit IgG (p/n 611-103-122) was used at a 1:40,000 dilution for 30 min at ambient and data generated with FemtoMax™ enhanced chemiluminescent reagent (p/n FEMTOMAX-100). Images were captured using BioRad Versadoc 4000MP Imaging System. Expect a band approximately 27 kDa.



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