

## ptxA Polyclonal Antibody

Catalog No: #42634

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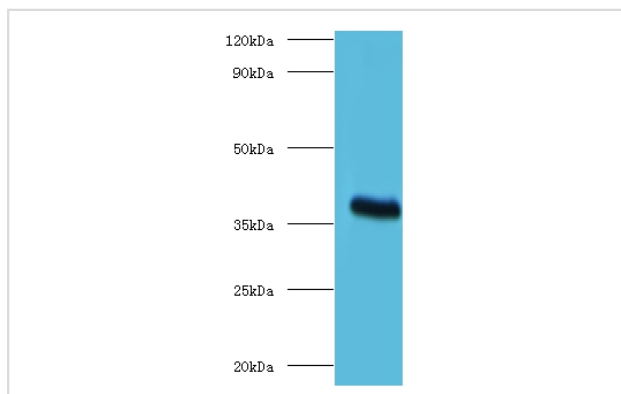
## Description

Product Name	ptxA Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB
Species Reactivity	Bordetella pertussis
Specificity	The antibody detects endogenous level of total ptxA polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant Bordetella pertussis Pertussis toxin subunit 1 protein
Target Name	ptxA
Other Names	Islet-activating protein S1 NAD-dependent ADP-ribosyltransferase ptxA BP3783
Accession No.	Swiss-Prot#: P04977
Uniprot	P04977
GeneID	2665068;
Calculated MW	36kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

## Application Details

Western blotting: □1:500 - 1:1000

## Images



All lanes: Bordetella pertussis pertussis toxin subunit 1 antibody at 2ug/ml + recombinant Bordetella pertussis pertussis toxin subunit 1 100ng secondary Goat polyclonal Rabbit IgG 1/1000 dilution predicted band size: 36kDa Observed band size: 36kDa

## Background

S1 is an NAD-dependent ADP-ribosyltransferase, which plays a crucial role in the pathogenesis of *B. pertussis* causing disruption of normal host cellular regulation. It catalyzes the ADP-ribosylation of a cysteine in the alpha subunit of host heterotrimeric G proteins. In the absence of G proteins it also catalyzes the cleavage of NAD<sup>+</sup> into ADP-ribose and nicotinamide. It irreversibly uncouples the G-alpha GTP-binding proteins from their membrane receptors.

## References

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[1] Cloning and sequencing of the pertussis toxin genes: operon structure and gene duplication. Nicosia A., Perugini M., Franzini C., Casagli M.C., Borri M.G., Antoni G., Almoni M., Neri P., Ratti G., Rappuoli R. Proc. Natl. Acad. Sci. U.S.A. 83:4631-4635(1)

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Note: This product is for in vitro research use only