

Product datasheet for **TA160054**

pagA Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	ELISA: 1 ug/mL
Reactivity:	Bacteria
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Anthrax PA antibody was raised against a synthetic peptide corresponding to 16 amino acids in the middle of the Anthrax protective antigen protein.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Database Link:	P13423
Background:	Anthrax PA Antibody: Anthrax infection is initiated by the inhalation, ingestion, or cutaneous contact with <i>Bacillus anthracis</i> endospores. <i>B. anthracis</i> produces three polypeptides that comprise the anthrax toxin: protective antigen (PA), lethal factor (LF), and edema factor (EF). PA binds to two related proteins on the cell surface; these are termed tumor epithelial marker 8 (TEM8)/anthrax toxin receptor (ATR) and capillary morphogenesis protein 2 (CMG2), although it is still unclear which is physiologically relevant. Following PA binding to its receptor, PA is cleaved into two fragments by a furin-like protease. The bound fragment binds both LF and EF; the resulting complex is then endocytosed which allows the translocation of LF and EF into the cytoplasm. These toxins are usually sufficient to cause rapid cell death, and often the death of the organism.



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