



Anthrax Protective Antigen mouse mAb

Catalog No	BYab-04503
Isotype	lgG
Reactivity	Bacillus anthracis
Applications	ELISA
Gene Name	pad4
Protein Name	
Immunogen	
Specificity	This antibody detects Anthrax Protective Antigen.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	ELISA 1:10000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	anthrax PA ;Anthrax toxins translocating protein ;PA 83 ;PA ;PA83 ;Pag ;PagA ;Protective antigen.
Observed Band	86kD
Cell Pathway	
Tissue Specificity	
Function	P13423 pXO1-110(pxo1_110) Bacillus anthracis domain:The molecule is folded into four functional domains. Each domain is required for a particular step in the toxicity process. Domain 1 contains two calcium ions and the proteolytic activation site. Cleavage of the PA monomer releases the subdomain 1a, which is the N-terminal fragment of 20-kDa (PA20). The subdomain 1b is part of the remaining 63-kDa fragment (PA63) and contains the binding sites for LP and EF. Domain 2 is a beta-barrel core containing a large flexible loop that has been implicated in membrane insertion and pore formation. There is a chymotrypsin cleavage site in this loop that is required for toxicity. Domain 3 has a hydrophobic patch thought to be involved in protein-protein interactions. Domain 4 appears to be a separate domain and shows limited contact with the other three

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domains: it would swing out of the

Background	P13423 pX01-110(pxo1_110) Bacillus anthracis domain is required for a particular step in the toxicity process. Domain 1 contains two calcium ions and the proteolytic activation site. Cleavage of the PA monomer releases the subdomain 1a, which is the N-terminal fragment (PAG3) and contains the binding sites for LP and EF. Domain 2 is a beta-barrel core containing a large flexible loop that has been implicated in membrane insertion and pore formation. There is a chymotrypsin cleavage site in this loop that is required for toxicity. Domain 3 has a hydrophobic patch thought to be involved in protein-protein interactions. Domain 4 appears to be a separate domain and shows limited contact with the other three domains: it would swing out of the way during membrane insertion. It is required for binding for the receptor; the small loop is involved in receptor recognition. function: One of the three proteins composing the anthrax toxin, the agent which infects many mammalian species and that may cause death. PA binds to a receptor (ATR) in sensitive eukaryotic cells, thereby facilitating the translocation of the enzymatic toxin components, edema factor and lethal factor, across the target cell membrane. PA associated with LF causes death when injected, PA associated with EF produces edema. PA induces immunity to infection with anthrax, miscellaneous: in PubMed:10085028 multiple mutagenesis experiments were performed that showed that the residues present in the small loop of domain 4, and not the ones in the large loop, are involved in receptor recognition. In PubMed:14623961 high-throughput scanning mutagenesis experiments were performed in which all residues of PA-63 were mutated into Cys. Dominantly negative (DN) mutants were all clustered in domain 2. DN mutants prevent the conformational transition of PA-63 from the prepore to the pore state.,PTM:Proteolytic activation by furin or a furin-like protease cleaves the protein in two parts, PA-20 and PA-63; the latter is the mature protein. The clease of PA20 from the rep
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For
	more information, please consult technical personnel.

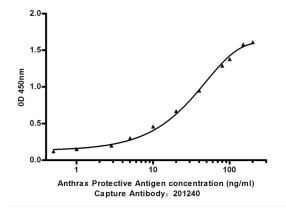
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Products Images



Standard Curve for Anthrax Protective Antigen: Capture Antibody Mouse mAb 201240 to Anthrax Protective Antigen at 4μ g/ml and other antibody for detecting.

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