

Ag85A, Recombinant Protein Reference Standard

Catalog No. NR-49427

This reagent is the tangible property of the U.S. Government.

Product Description:

NR-49427 is a recombinant form of the antigen 85 complex A (Ag85A) protein. The recombinant protein consists of the native protein sequence in addition to a hexa-histidine tag. The recombinant protein was expressed in *Escherichia coli* (*E. coli*) BL21 (DE3) pLysS cells and purified by immobilized-metal affinity chromatography. Ag85A was harvested and purified from *E. coli* BL21 (DE3) pLysS cells transformed with BEI Resources NR-13292 lot 04.EC.09.03.

Lot: 70032803

Manufacturing Date: 10AUG2020

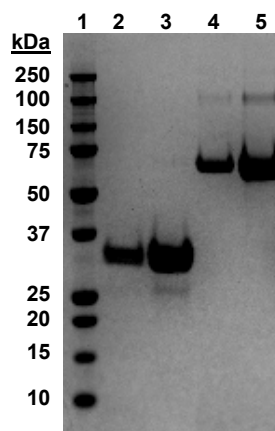
TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	White powder
SDS-PAGE (Coomassie Blue Stain)	Dominant band ~ 35 kDa > 90% pure	Dominant band of ~ 35 kDa accounts for > 90% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Protein Assay ¹	Report results	0.8 mg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	0.4 mg 500 µL
Western Blot Analysis Polyclonal anti-Ag85A ² Monoclonal anti-histidine tag ³	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	1 to 10000 EU per mg protein	57.4 EU per mg protein
Sterility	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using bovine serum albumin (BSA) as a standard

²Rabbit anti-Ag85A polyclonal antibody (Abcam, ab193499) (1:1000 dilution)

³Anti-histidine monoclonal antibody (R&D Systems, MAB050) (1:1000 dilution)

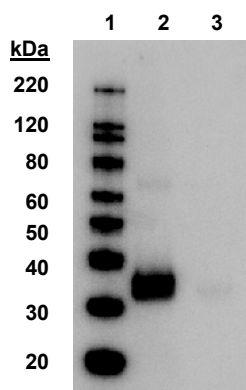
Figure 1: SDS-PAGE of Ag85A



Lane 1: Precision Plus Protein™ All Blue Protein Standard
Lane 2: NR-49427, 2.5 µg
Lane 3: NR-49427, 8 µg
Lane 4: BSA, 2.5 µg
Lane 5: BSA, 8 µg

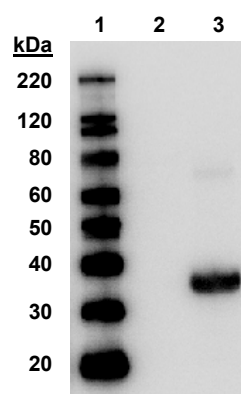
Certificate of Analysis for NR-49427

Figure 2: Western Blot with Polyclonal Anti-Ag85A



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-49427, 1 µg
Lane 3: BSA, 1 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: BSA, 1 µg
Lane 3: NR-49427, 1 µg

/Heather Couch/
Heather Couch

Program Manager or designee, ATCC Federal Solutions

13 NOV 2020

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