

# Monoclonal Anti-Ferret CD16 Antigen, Clone F1.2H1 (produced *in vitro*)

Catalog No. NR-58932

## Product Description:

Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the ferret (*Mustela putorius furo*) CD16 (FcγRIII) antigen was purified from clone F1.2H1 hybridoma supernatant using protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 mouse myeloma cells with splenocytes from BALB/c mice immunized with recombinant ferret CD16 protein.

Lot: 70058232

Manufacturing Date: 08FEB2022

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	IgG1κ	IgG1κ
SDS-PAGE Analysis	Correct molecular weight (MW) for heavy and light chains; Report purity	Correct molecular weight (MW) for heavy and light chains (Figure 1); > 90% pure
Concentration by Nanodrop	~ 1 mg/mL	1.0 mg/mL
Amount per Vial	Report results	0.025 mg
Functional Activity Western blot <sup>1</sup> ELISA <sup>2</sup> Flow cytometry <sup>3</sup>	Reactive Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3) Reactive (Figure 4)
Endotoxin Content	Report results	21.27 EU/mL
Mycoplasma Contamination DNA detection by PCR	None detected	None detected
Sterility	0.2 μm filter-sterilized	0.2 μm filter-sterilized

<sup>1</sup>Recombinant CD16 antigen and BSA were used for western blot analysis. Goat anti-mouse IgG conjugated to HRP was used as the detection antibody and chemiluminescent development was applied.

<sup>2</sup>Recombinant CD16 antigen and BSA were used for Direct Binding ELISA. Plates were coated with 10 μg/mL of CD16 antigen or BSA and dilutions of NR-58932 were added to the wells. Goat anti-mouse IgG conjugated to HRP was used as the detection antibody. Colorimetric detection was performed using 3,3',5,5'-Tetramethyl benzidine (TMB) substrate.

<sup>3</sup>FITEC.FrtCD16.A10 (ferret immortalized tracheal epithelial cells) cell clones expressing ferret CD16 were stained with dilutions of NR-58932 as the primary antibody and goat anti-mouse IgG conjugated with Alexa488 as the secondary antibody.

Figure 1: SDS-PAGE Analysis

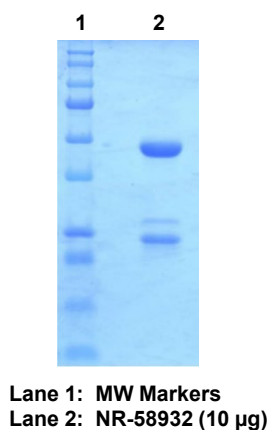
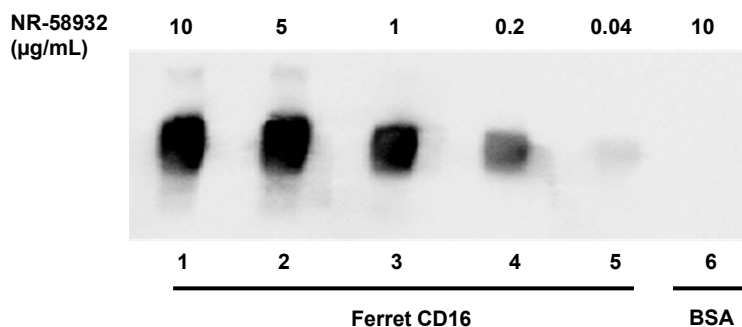


Figure 2: Western Blot Analysis



# Certificate of Analysis for NR-58932

Figure 3: ELISA

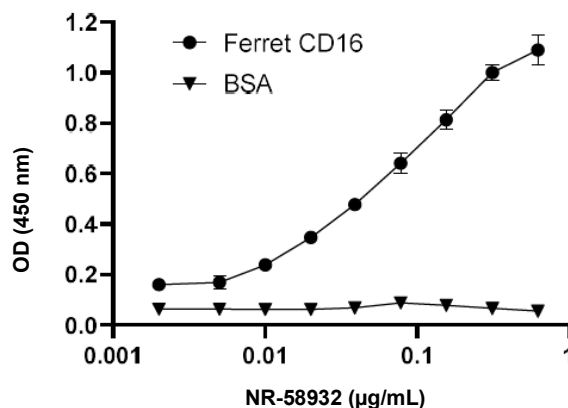
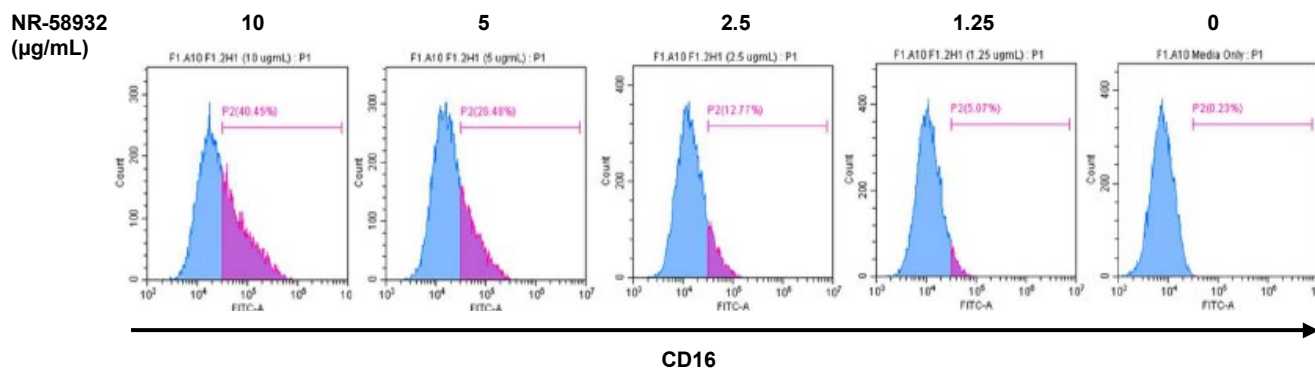


Figure 4: Flow Cytometry



/Sonia Bjorun Brower/  
Sonia Bjorun Brower

Technical Manager or designee, ATCC Federal Solutions

09 MAR 2023

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contributor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

