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12-8417: Anti-Influenza B, NP (IB-1837)

Clonality : Monoclonal
Application : IP,ELISA,FACS,WB,IF

Description

Specificity: Influenza B NP
Background: There are four types of Influenza (flu) viruses: type A, B, C, and D. Influenza A and B viruses are routinely spread in people and other mammals, while also known for seasonal flu epidemics each year. Influenza B is a Betainfluenzavirus in the virus family Orthomyxoviridae. Influenza B is classified into two distinct lineages, B/Victoria and B/Yamagata1. Influenza B can be even further classified into specific clades (also known as groups) and sub-clades (also known as sub-groups) based on similarity of their HA/NA gene sequences1. The Nucleocapsid protein or nucleoprotein (NP) of influenza virus B negative-strand RNA?s primary function is to encapsulate the virus genome for the purpose of RNA transcription, replication and packaging2. Specifically, NP is the most abundant viral protein in infected cells2, therefore the NP can be and has been used for anti-influenza drug development3 The NP of influenza A and B viruses share up to 38% of their amino acid sequence, indicating region functionality differences at the amino acid level4.

Product Info

Amount :	1 mg / 250 µg
Purification :	Purity :>=90% monomer by analytical SEC and SDS-Page Preparation : Hollow fiber bioreactor using fetal bovine serum of US origin. Purified using Protein A affinity chromatography.
Content :	Concentration:>=1.0 mg/ml Formulation: Formulated in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% sodium azide. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Storage condition :	This antibody may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at -80°C.?Avoid Repeated Freeze Thaw Cycles.

Application Note

IF, IP, FC

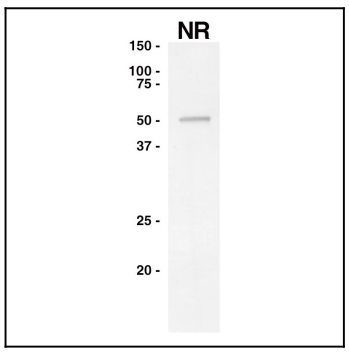

Fig 1: Western Blot Purified Recombinant Influenza B NP was separated on SDS PAGE under reducing conditions and probed with an anti-Influenza B NP antibody.

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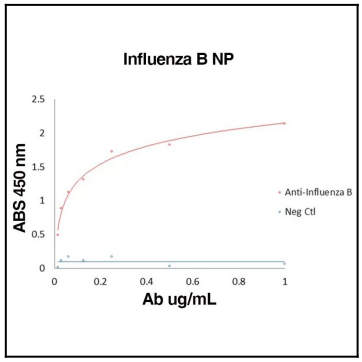

Fig 2: Direct binding of anti-Influenza B NP Antibody to Influenza B NP. Influenza B NP was immobilized at 1 µg/mL. Anti-Influenza B NP antibody was titrated.