



Product Analysis Certificate

PRODUCT	Cas9 monoclonal antibody [Clone 7A9]
CATALOG #	CAS9-AB-2
LOT #	Varies
STORAGE	-20°C (long term)
SHELF LIFE	12 months from date of receipt with proper storage
SHIPPING	Blue ice

DESCRIPTION

The type II prokaryotic CRISPR (clustered regularly interspaced short palindromic repeats) adaptive immune system has been shown to facilitate RNA-guided sequence-specific DNA cleavage, which provides a new class of genome engineering tools. To make the RNA-directed Cas9 system more efficient, affordable, and convenient to use, SBI has developed a suite of PrecisionX™ Cas9 products <http://www.systembio.com/cas9>.

SBI offers a monoclonal Cas9 antibody designed to detect wild-type Cas9, nickase (D10A, H840A, and catalytically dead Cas9 (dCas9) in cells expressing the protein. This antibody may be utilized for a wide range of assays for detection of Cas9 in target cells, including the following:

- Western blot analysis
- Immunofluorescence
- Immunoprecipitation

PACKAGE CONTENTS

Cat#	Description	Amount
CAS9-AB-2	Cas9 monoclonal antibody [Clone 7A9]	25 µg (1µg/ul)

Cas9 monoclonal antibody is an IgG1 mouse monoclonal clonal antibody that is Protein G affinity purified and provided in a solution of 1X PBS (pH7.4), 0.5% BSA, 30% Glycerol, and preserved in 0.05% Sodium Azide.

Note: Please spin down briefly prior to use!

VALIDATION DATA

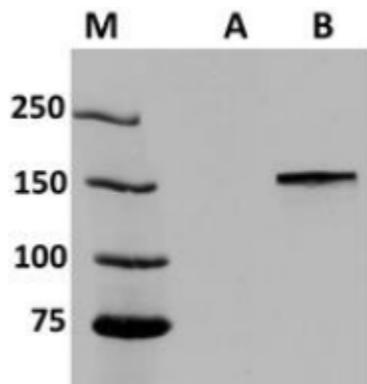


Fig 1. Western blot data on Cas9-transfected (B) and untransfected (A) HEK293 cells using the Cas9 monoclonal antibody [Clone 7A9]

RECOMMENDED STARTING RANGES

Western blot analysis: (1:500)

Immunofluorescence: (1:500)

ChIP or IP assays: (2 μ g/ 10⁶ cells)

Important Licensing Information

SBI has pending patent applications related to the Cas9 SmartNuclease Products. SBI does not require a use-license for research purposes for non-profit or for-profit institutions. For commercial applications, please contact SBI for more information. The Product is expressly not designed, intended, or warranted for use in humans or for therapeutic or diagnostic use. This Product is covered by a limited-use label license. Purchase and use of any part of the Product constitutes acceptance of the terms outlined in the Licensing and Warranty Statement contained in the User Manual. If the terms and conditions are not acceptable, return all components of the Product to System Biosciences (SBI).