

## Mouse Anti-AAV8 ELISA Kit, Quantitative (DEIASL345MQ)

AAV is one of the smallest viruses with a non-enveloped icosahedral capsid of approximately 22 nm. Despite the high seroprevalence of AAV in the human population (approximately 80% of humans are seropositive for AAV2) the virus has not been linked to any human illness. AAV is used in a growing number of FDA applications and clinical trials worldwide. Due to the viral origin of AAV, the capsids can induce cellular and humoral immune responses that trigger neutralization of the vector with anti-AAV antibodies, which prevents transduction in patients. Over 90 percent of humans have preexisting binding antibodies to some AAV serotypes. Some of these antibodies are neutralizing and may cause loss of efficacy even on the first dose. Therefore, there is a critical need to improve our understanding of risks of AAV immunogenicity and to develop technologies for evaluating and mitigating this response.

Methods to detect pre-existing AAV immunity include cell-based in vitro TI assays, in vivo (for example, mice) TI assays, and enzyme-linked immunosorbent assay (ELISA)-based detection of total anti-capsid antibody (TAb) assays. The TAb assay may be able to detect low potency NAb that are below the threshold of TI assays, but it may not detect non-antibody neutralizing factors.

Creative Diagnostics developed a portfolio of anti-AAV antibody ELISA kits for the most commonly used AAV serotypes. The standardized assay developed to screen for AAV seropositivity was shown to be an essential tool in screening patients for pre-existing antibodies to minimize safety concerns and improve therapeutic efficacy with AAV-based gene therapies.

### **DEIASL345MQ Product:**

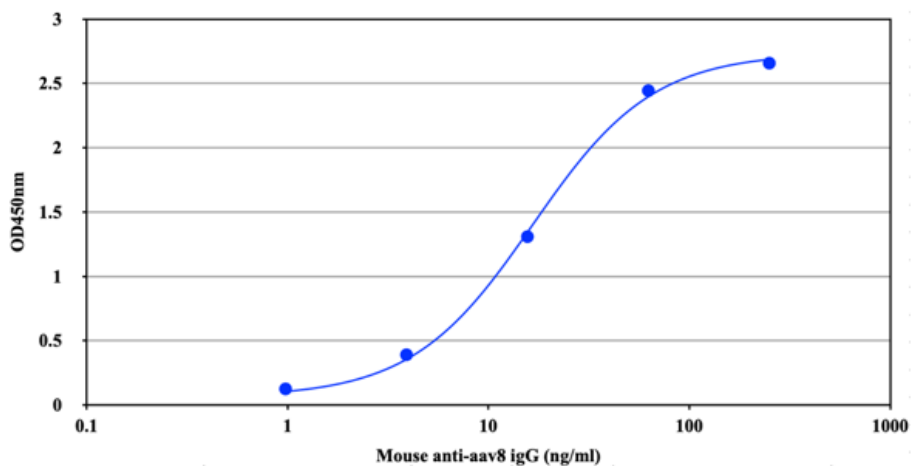
Mouse Anti-AAV8 ELISA Kit, Quantitative (DEIASL345MQ) is designed, developed and produced for quantitative measurement of mouse anti-AAV8 IgG in test sample. The assay utilizes the indirect enzyme linked immunosorbent technique.

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## Features:

- **Precision:** Intra-Assay CV<15%, Inter-Assay CV<15%
- **Detection Range:** 0-250 ng/mL
- **Sensitivity:** The Detection Threshold for the assay is 1.72 ng/mL. The assay sensitivity for undiluted samples corresponds to 34.4 ng/mL, because the serum samples are instructed to be diluted at 20-fold (1:20) before starting the assay.
- **Standard curve:**

	Test value OD450/620nm	Specification OD450/620nm
S1	2.757	>2.0
S2	2.443	
S3	1.308	
S4	0.390	
S5	0.125	
S0	0.021	<0.1



## Other AAV Products:

### Anti-AAV Antibody ELISA Kits

Cat.	Product Name	Application	Sample
DEIASL347	Human Anti-AAV2 antibody ELISA Kit	Qualitative	Serum

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DEIASL343	Human Anti-AAV5 Antibody ELISA Kit	Qualitative	Serum, plasma
DEIASL344	Human Anti-AAV6 Antibody ELISA Kit	Qualitative	Serum, plasma
DEIASL345	Human Anti-AAV8 antibody ELISA Kit	Qualitative	Serum
DEIASL348	Human Anti-AAV9 antibody ELISA Kit	Qualitative	Serum
DEIASL345M	Mouse Anti-AAV8 antibody ELISA Kit	Qualitative	Serum
DEIASL345MQ	Mouse Anti-AAV8 antibody ELISA Kit (Quantitative)	Qualitative	Serum
DEIASL348M	Mouse Anti-AAV9 antibody ELISA Kit	Qualitative	Serum
DEIASL347Y	Monkey Anti-AAV2 antibody ELISA Kit	Qualitative	Serum
DEIASL343Y	Monkey Anti-AAV5 Antibody ELISA Kit	Qualitative	Serum, plasma
DEIASL344Y	Monkey Anti-AAV6 Antibody ELISA Kit	Qualitative	Serum, plasma
DEIASL345Y	Monkey Anti-AAV8 antibody ELISA Kit	Qualitative	Serum
DEIASL348Y	Monkey Anti-AAV9 antibody ELISA Kit	Qualitative	Serum

## AAV Titration ELISA

Cat.	Product Name	Application	Sample
DEIA589	AAV2 Titration ELISA Kit	Quantitative	Cell culture supernatants and purified virus preparations
DEIA591	AAV5 Titration ELISA Kit	Quantitative	Cell culture supernatants and purified virus preparations
DEIAAV6	AAV6 Titration ELISA Kit	Quantitative	Cell culture supernatants and purified virus preparations
DEIAAV8	AAV8 Titration ELISA Kit	Quantitative	Cell culture supernatants and purified virus preparations
DEIAAV9	AAV9 Titration ELISA Kit	Quantitative	Cell culture supernatants and purified virus preparations

# CREATIVE DIAGNOSTICS

**Mouse Anti-AAV8 ELISA Kit, Quantitative (DEIASL345MQ)**



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