

Rev01
Update: Jan,03,2023

DATASHEET

MonoRab™ AAVX VP1 Antibody (24F5), mAb, Rabbit

Cat. No.: A02207

Overview

Specificity	The product reacts with VP1 protein of AAV1, AAV2, AAV6, AAV8, AAV9, AAVDJ. It does not react with AAV5 and AAVrh.1. AAV3, AAV4, AAV7 and AAV10 are not tested.
Host Species	Rabbit
Immunogen	AAV8 Virus-Like Particles (VLPs)
Conjugate	Unconjugated

Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Application	Recommended Usage
ELISA	0.05-0.2 µg/ml
Dot Blot	0.5-2 µg/ml
Western Blot	0.5-2 µg/ml

Properties

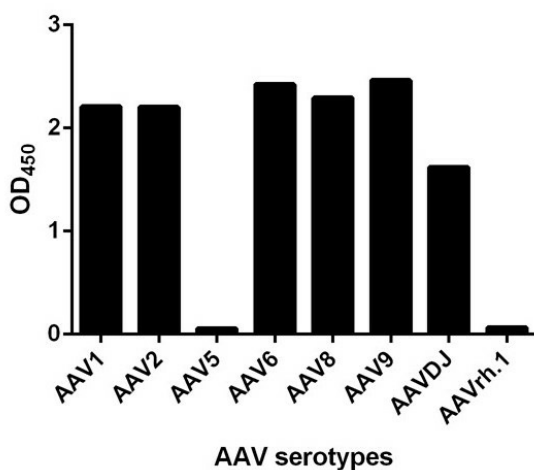
Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.2, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

Storage Instructions	The lyophilized product remains stable up to 1 year at -20°C from date of receipt. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
Purification	Purified by Protein A affinity chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Clone ID	24F5
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Examples

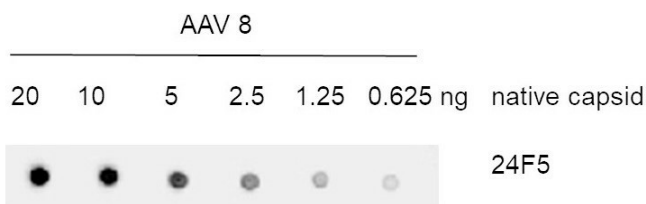


Dot blot analysis of AAV type 1, 2, 5, 6, 8, 9, DJ and rh.1 using MonoRab™ AAVX VP1 Antibody (24F5), mAb, Rabbit (GenScript, A02207, 0.2 µg/ml).



ELISA analysis of AAV type 1, 2, 5, 6, 8, 9, DJ and rh.1 using MonoRab™ AAVX VP1 Antibody (24F5), mAb, Rabbit (GenScript, A02207).

Coating antigen: AAV type 1, 2, 5, 6, 8, 9, DJ and rh.1, 1 µg/ml.



Sensitivity of MonoRab™ AAVX VP1 Antibody (24F5), mAb, Rabbit (GenScript, A02207, 0.2 µg/ml) with Anti-Adeno-associated virus (AAV8), intact particles by Dot blot. The assay was performed with AAV8.

AAV 1 2 5 6 8 9 DJ rh.1 150 ng capsid



Western blot analysis of VP1 protein of AAV type 1, 2, 5, 6, 8, 9, DJ and rh.1 using MonoRab™ AAVX VP1 Antibody (24F5), mAb, Rabbit (GenScript, A02207, 0.1 µg/ml).

The signal was developed with Peroxidase Conjugated Goat Anti-Rabbit IgG.

Predicted Size: 87 KD

Observed Size: 87 KD

Background

Target Background : Adeno-associated virus (AAV) is a single-stranded DNA virus that commonly infects humans without pathology. Therefore, AAV can be engineered to deliver DNA to target cells as a vector for gene therapy. There are several serotypes including AAV type 1, 2, 5, 6, 8, 9, DJ and rh.1. Among them, AAV2 is the best characterized and most commonly used. Cap gene of AAV gives rise to three capsid proteins, VP1, VP2 and VP3, with molecular weight of 87, 72 and 62 kDa, respectively. These capsid proteins assemble into a near-spherical protein shell of 60 subunits for AAV.

Synonyms : Adeno-associated virus; AAV

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.