

## Product datasheet

### anti-AAV9 (intact particle) mouse monoclonal, ADK9, supernatant

#### Short overview

|                 |        |
|-----------------|--------|
| <b>Cat. No.</b> | 651162 |
| <b>Quantity</b> | 5 ml   |

#### Product description

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| <b>Host</b>          | Mouse                                                                                 |
| <b>Antibody Type</b> | Monoclonal                                                                            |
| <b>Isotype</b>       | IgA kappa                                                                             |
| <b>Clone</b>         | ADK9                                                                                  |
| <b>Immunogen</b>     | AAV9 capsids                                                                          |
| <b>Formulation</b>   | Contains 0.09% sodium azide                                                           |
| <b>Synonym</b>       | Adeno-associated virus 9; AAV-9                                                       |
| <b>Conjugate</b>     | Unconjugated                                                                          |
| <b>Purification</b>  | Hybridoma cell culture supernatant                                                    |
| <b>Storage</b>       | Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles |
| <b>Intended use</b>  | Research use only                                                                     |
| <b>Application</b>   | Dot blot, ELISA, ICC/IF, Neutralization assay                                         |
| <b>Reactivity</b>    | AAV9                                                                                  |
| <b>No reactivity</b> | AAV1, AAV11, AAV12, AAV2, AAV3, AAV4, AAV5, AAV6, AAV7, AAV8, AAVDJ, AAVrh10, AAVrh74 |

#### Applications

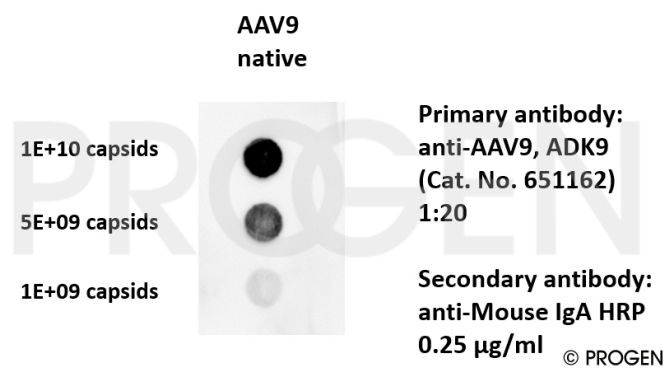
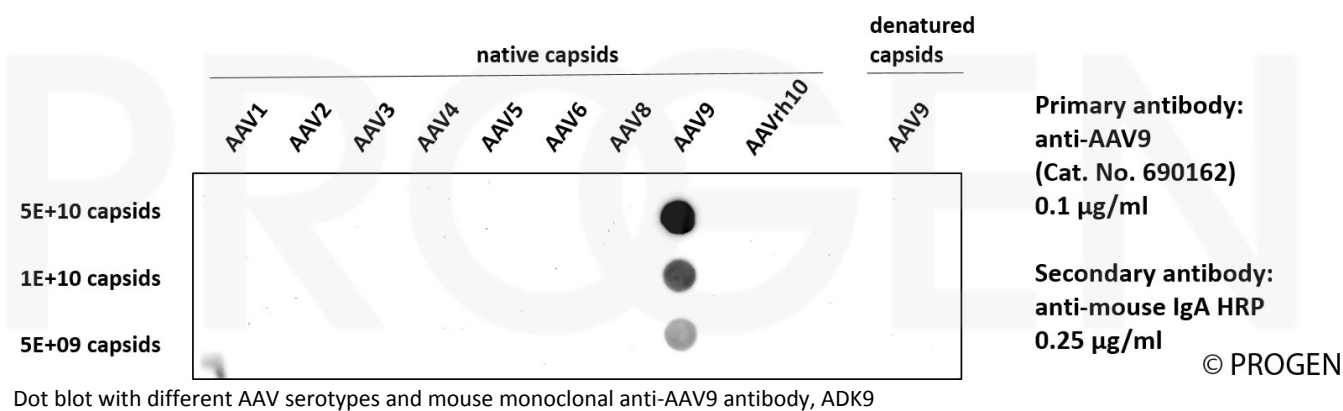
|                                  |                                        |
|----------------------------------|----------------------------------------|
| <b>Dot Blot</b>                  | 1:20-1:100 (non-denaturing conditions) |
| <b>ELISA</b>                     | Assay dependent                        |
| <b>Immunocytochemistry (ICC)</b> | Assay dependent                        |
| <b>Neutralization Assay</b>      | Assay dependent                        |

#### Background

For characterization of different stages of infection and very useful for the analysis of the AAV assembly process. ADK9 specifically reacts with intact adeno-associated virus particles, empty and full capsids. Recognizes a conformational epitope of assembled capsids. The antibody cannot be used for immunoblotting. The antibody is also useful for neutralizing experiments.

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#### Product images



## References

| Publication                                                                                                                                                                                                      | Species | Application                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------|
| <a href="#">Adachi, K., Enoki, T., Kawano, Y., Veraz, M. &amp; Nakai, H. Drawing a high-resolution functional map of adeno-associated virus capsid by massively parallel sequencing. Nat. Commun. 5, (2014).</a> | AAV9    | Neutralization epitope mapping            |
| <a href="#">Varadi, K. et al. Novel random peptide libraries displayed on AAV serotype 9 for selection of endothelial cell-directed gene transfer vectors. Gene Ther. 19, 800-809 (2012).</a>                    | AAV9    | neutralization                            |
| <a href="#">Tseng, Y.-S. et al. Generation and characterization of anti-Adeno-associated virus serotype 8 (AAV8) and anti-AAV9 monoclonal antibodies. J. Virol. Methods 236, 105-110 (2016).</a>                 | AAV9    | dot blot, neutralization                  |
| <a href="#">Emmanuel, S. N. et al. Structurally Mapping Antigenic Epitopes of Adeno-associated Virus 9: Development of Antibody Escape Variants. J. Virol. 96, (2022).</a>                                       | AAV9    | neutralization, epitope mapping, dot blot |
| <a href="#">Mietzsch, M. et al. OneBac: Platform for Scalable and High-Titer Production of Adeno-Associated Virus Serotype 1-12 Vectors for Gene Therapy. Hum. Gene Ther. 25, 212-222 (2014).</a>                | AAV9    | dot blot                                  |