



Source

Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) is a Rabbit monoclonal antibody recombinantly expressed from HEK293 cells.

Clone

M1D08

Species

Rabbit

Isotype

Rabbit IgG | Rabbit Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Immunogen

PBD-BSA.

Specificity

Specifically recognizes PBD.

Application

Application	Recommended Usage
ELISA	0.06-10000 ng/mL

Cross Verification

This product No cross-reactivity in ELISA with IgG1-MMAF.
Doxorubicin-ADC.
Disitamab Vedotin (RC48).
Trastuzumab Deruxtecan.
Sacituzumab Govitecam.
Trastuzumab-DM1.

Purity

>90% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

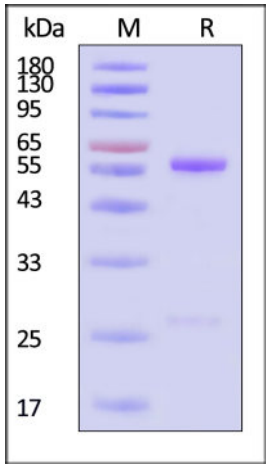
SDS-PAGE

SEC-MALS



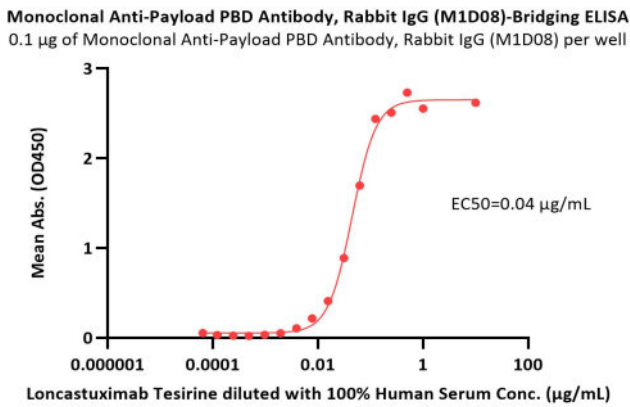
Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) (MALS verified)

Catalog # PAD-MY2221

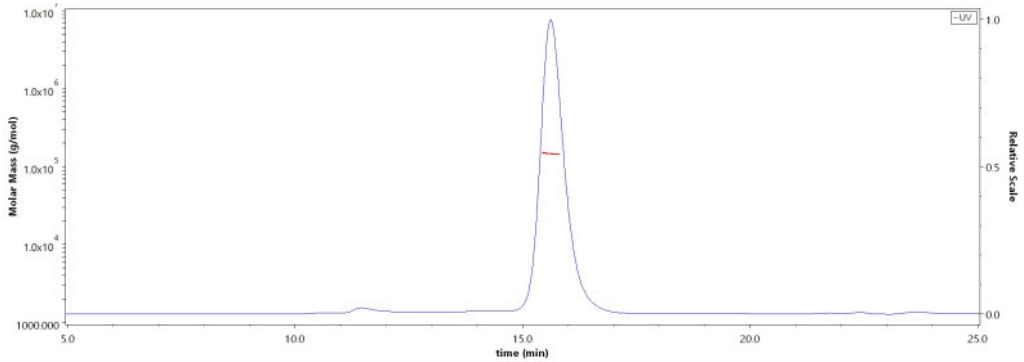


Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

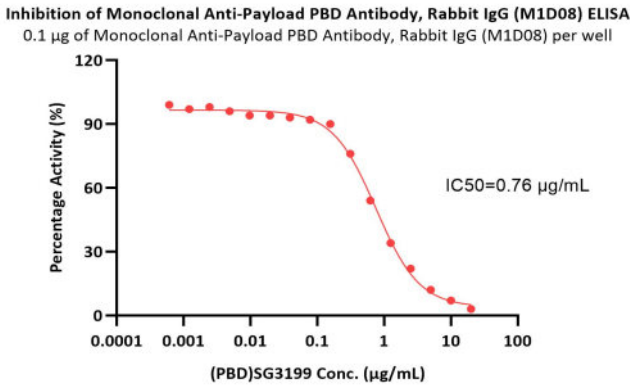


Immobilized Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) (Cat. No. PAD-MY2221) at 1 µg/mL, add Loncastuximab Tesirine in the 100% Human Serum and then add Biotinylated Human CD19 (20-291), His,Avitag, premium grade (Cat. No. CD9-H82E9) at 0.5 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (QC tested).



The purity of Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) (Cat. No. PAD-MY2221) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS.

[Report](#)



Serial dilutions of (PBD)SG3199 were added into Monoclonal Anti-Payload PBD Antibody, Rabbit IgG (M1D08) (Cat. No. PAD-MY2221): Loncastuximab Tesirine binding reactions. The half maximal inhibitory concentration (IC50) is 0.7587 µg/mL (Routinely tested).

Background

Pyrrolobenzodiazepine (PBD) dimer, is a new generation of cytotoxic payload used in antibody-drug conjugates (ADCs). The PBD dimer binds to the minor groove of DNA to form effective cytotoxic DNA interstrand crosslinks, which can block cell division and kill cancer cells. This mechanism of action utilizes a completely different cellular target from that of tubulin inhibitors, as well as a different DNA damage pattern from other DNA-targeting payloads. Anti-PBD antibody is a rabbit monoclonal antibody specially reacts with PBD, which is more sensitive than mouse antibody. The anti-PBD antibody is a useful reagent in PK assay to determine conjugated antibodies.

