

# Antibody-Drug Conjugates Research Solutions

## Anti-Payload and Linker Antibodies

Assessing the pharmacokinetics (PK) of ADCs in preclinical and clinical studies is crucial for their development. Biotransformation can impact the drug-to-antibody ratio (DAR) or modify the payload/linker, leading to different in vivo forms. PK assays typically measure conjugated antibodies, total antibodies, and released payload.

OriGene offers high-purity, high-affinity anti-payload and anti-linker antibodies for analyzing ADC plasma/serum PK profiles, DAR values, and drug load distribution. These antibodies help evaluate ADC safety and efficacy, supporting faster drug development.

### Available Targets:

**MMAE | Dxd | SN38 | DM1 | Eribulin**

**CL2A (Linker)**

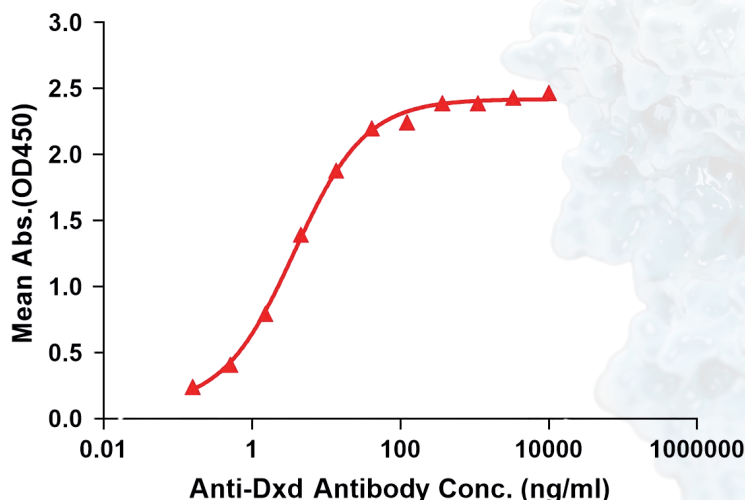
### Product Features

- Rabbit Monoclonal Antibody
- Unconjugated and Biotin-conjugated
- Validated using ELISA
- High affinity
- Multiple clones
- Available in 10 ug and 100 ug sizes

### Applications

ADC PK analysis | DAR value detection

#### Evaluation of Anti-Dxd Antibody with ELISA



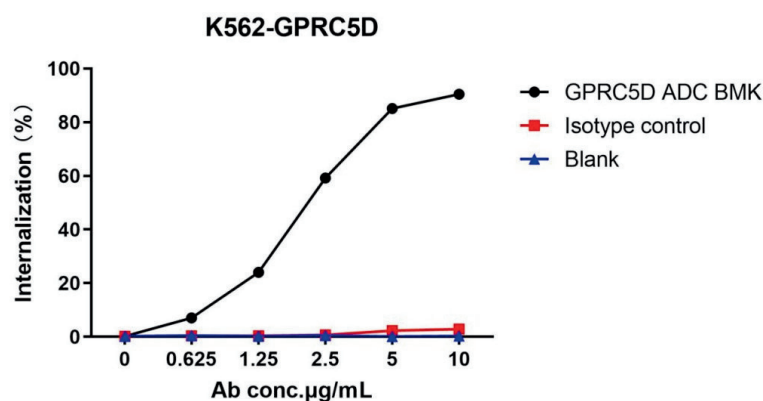
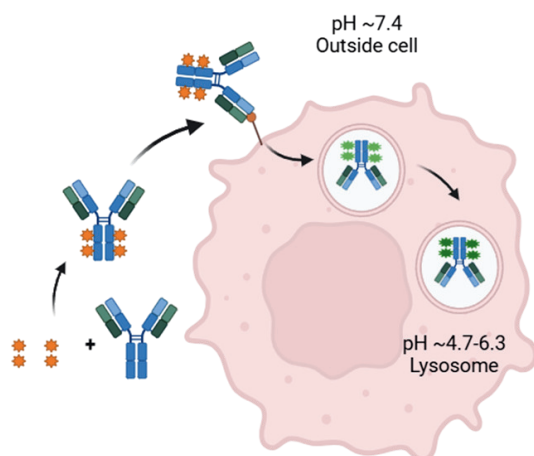
ELISA plates were pre-coated with IgG-Dxd (0.2µg/per well). Serial diluted anti-Dxd monoclonal antibody ([TA421202](#)) solutions were added, washed, and incubated with secondary antibody before ELISA reading.

EC50 for anti-Dxd monoclonal antibody binding with IgG-Dxd is 3.690 ng/ml

# Internalization Reagent for ADC

Antibody internalization is crucial for evaluating ADC bioactivity, both in early discovery and preclinical studies.

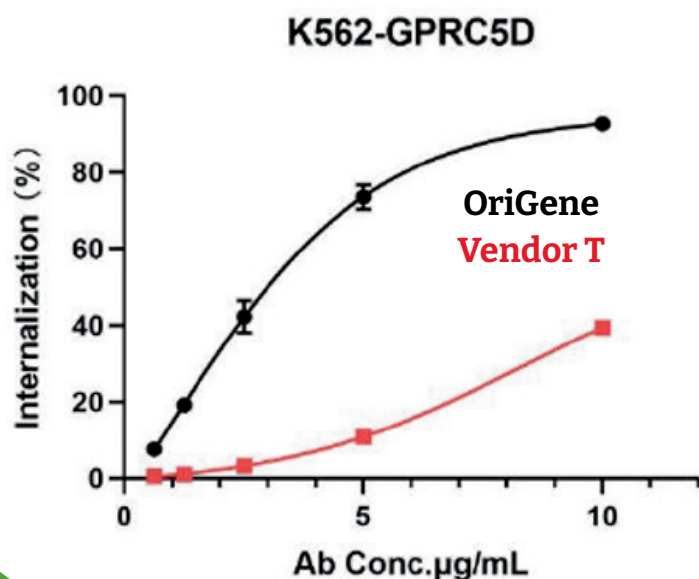
OriGene offers a pH-sensitive dye (Cat# **AR100091**) for internalization studies. This dye remains non-fluorescent at neutral pH but fluoresces in acidic environments, enabling real-time tracking of internalization. By conjugating the dye to target compounds, researchers can easily monitor uptake using flow cytometry or fluorescence microscopy.



*Fluorescence signal of GPRC5D ADC-AR100091 conjugate is detected only in GPRC5D-positive cells*

## Applications

*In vitro* internalization assay detection using flow cytometry or fluorescence microscopy



## Product Features

- Higher sensitivity than other solutions
- Broad spectrum of binding to IgG subtypes
  - Human: IgG1, IgG2, IgG3, IgG4
  - Mouse: IgG1, IgG2a, IgG2b, IgG3
  - Rabbit: IgG
- Use less reagent
- Simplified protocol
- Competitive pricing

**Ask for free-sample trial size**

visit [www.origene.com](http://www.origene.com) to learn more about our solutions to ADC Research



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