

Rev01  
Update: Mar,17,2023

**DATASHEET**

# DXd Antibody (39F4), mAb, Mouse

Cat. No.: A02217

## Overview

<b>Specificity</b>	The product is specific for DXd and DXd structurally similar molecules. The antibody can bind to DS-8201a.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	DXd-KLH
<b>Conjugate</b>	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.

<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.01-2 µg/ml

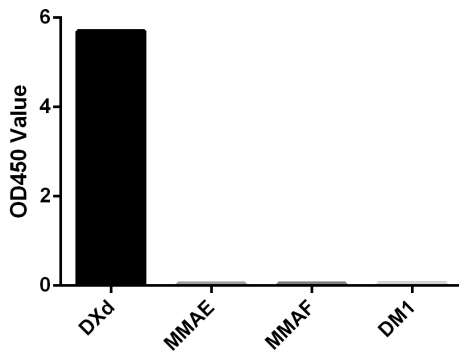
## Properties

<b>Form</b>	Liquid
<b>Storage Buffer</b>	Supplied in PBS, pH 7.4, containing 0.02% ProClin300.
<b>Concentration</b>	0.5 mg/mL
<b>Storage Instructions</b>	The product remains stable up to 1 year at -20 °C from date of receipt. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG2b, κ
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	39F4

**Note** GenScript can customize this product per customer's request including product size, buffer components, etc.

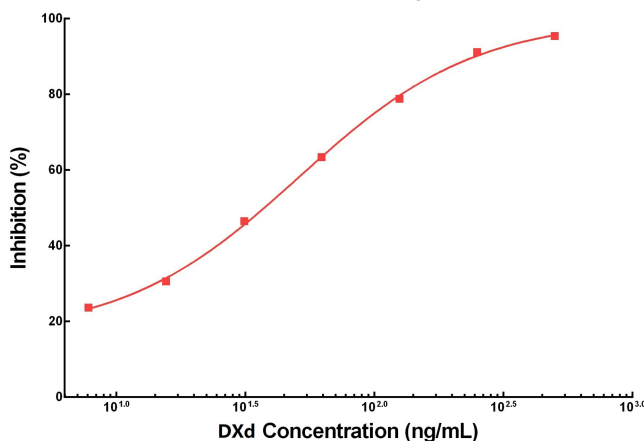
## Examples

### ELISA Binding Assay of DXd Antibody (39F4) to Different Payloads



ELISA binding of DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) with DXd-HRP, MMAE-HRP, MMAF-HRP, DM1-HRP. Coating antibody: DXd Antibody (39F4), mAb, Mouse, 2 µg/ml. Detection reagent: HRP conjugated DXd, MMAE, MMAF, and DM1, 1 µg/ml. DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) is specific to DXd and has no cross-reactivity with MMAE, MMAF, and DM1.

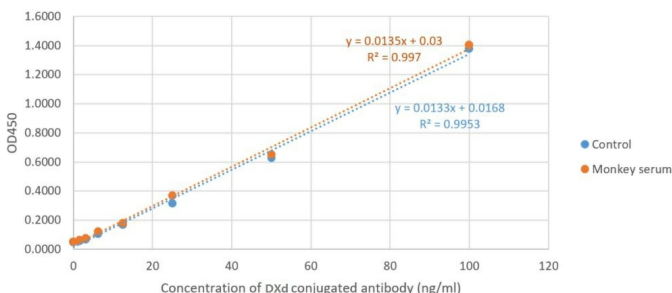
### Standard Curve of DXd Competitive ELISA



Standard curve of DXd Competitive ELISA. The competitive ELISA assay is developed by using free DXd block the binding of DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) to HRP conjugated DXd.

Capture antibody: DXd Antibody (39F4), mAb, Mouse, 2 µg/ml  
 Detection reagent: HRP conjugated DXd, 0.3 µg/ml  
 Free DXd dilution start from 500 ng/ml.

Standard curve of DXd conjugated antibody Sandwich ELISA by anti-Human IgG Fc antibody and A02217 in monkey serum

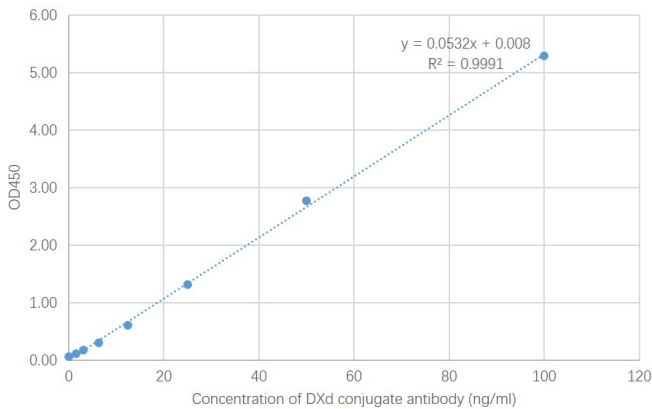


Standard curve of DXd conjugated Trastuzumab Sandwich ELISA by anti-Human IgG Fc antibody and A02217 in monkey serum.

The DXd conjugated Trastuzumab Sandwich ELISA assay is developed by using DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) and Mouse Anti-Human IgG Fc Antibody (50B4A9)[HRP], mAb (GenScript, A01854) as the capture and detection antibodies, respectively.

The samples tested in this assay were DXd conjugated Trastuzumab. The control samples were not serum spiked. The monkey serum samples were spiked with cynomolgus monkey serum matrix.

Standard curve of DXd conjugated antibody Sandwich ELISA by Anti-Trastuzumab Antibody (11C4) and DXd Antibody (39F4)



Standard curve of DXd conjugated Trastuzumab Sandwich ELISA by anti-idiotypic antibody and A02217.

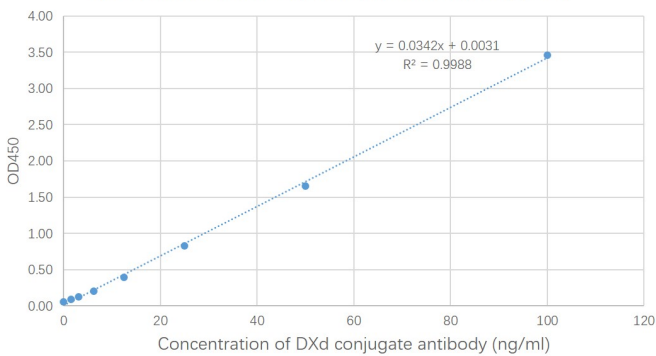
The Sandwich ELISA assay is developed by using Anti-Trastuzumab Antibody (11C4), mAb, Mouse (GenScript, A02032) and DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) and as the capture and detection antibodies, respectively.

In this ELISA assay, DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) was labeled with HRP. GenScript can provide customized conjugation service for this product per customer's request.

Capture antibody: Anti-Trastuzumab Antibody (11C4), mAb, Mouse, 2 µg/ml

Detection antibody: DXd Antibody (39F4), mAb, Mouse, 0.22 µg/ml

Standard curve of DXd conjugated antibody Sandwich ELISA by Anti-Trastuzumab Antibody (15H2) and DXd Antibody (39F4)



Standard curve of DXd conjugated Trastuzumab Sandwich ELISA by anti-idiotypic antibody and A02217.

The Sandwich ELISA assay is developed by using Anti-Trastuzumab Antibody (15H2), mAb, Mouse (GenScript, A02033) and DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) and as the capture and detection antibodies, respectively.

In this ELISA assay, DXd Antibody (39F4), mAb, Mouse (GenScript, A02217) was labeled with HRP. GenScript can provide customized conjugation service for this product per customer's request.

Capture antibody: Anti-Trastuzumab Antibody (15H2), mAb, Mouse, 2 µg/ml

Detection antibody: DXd Antibody (39F4), mAb, Mouse, 0.22 µg/ml

## Background

**Target Background :** Payloads are the important components of antibody-drug conjugates (ADCs). The most commonly used ADC payloads are MMAE, DM1, and DXd. ADC pharmacokinetic (PK) studies include free payload analysis, conjugated antibody analysis, and total antibody analysis via ligand-binding assay (LBA) and LC-MS/MS assay. The anti-payload antibody is a useful reagent in PK assay for determining conjugated antibodies. It can be used as a capture antibody to determine the conjugated antibody in LBA assay or through immunocapture to enrich the ADC sample in LC-MS/MS assay. The DXd, also known as exatecan derivative, is a potent inhibitor of DNA topoisomerase I. Trastuzumab deruxtecan (T-DXd, DS-8201a or Enhertu®), composed of trastuzumab conjugated to DXd, is the first approved ADC for the treatment of breast cancer.

**Synonyms :** Dxd, OQM5SD32BQ, UNII-OQM5SD32BQ, Exatecan derivative, Exatecan derivative for ADC

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

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