

# Human CD123 Monoclonal Antibody

Catalog No.: YR0023

## Basic Information

### Molecular Weight

150 kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Pivekimab is a human IgG1 monoclonal antibody that targets interleukin-3 (IL-3) and CD123. Pivekimab is used to synthesize pivekimab sunirine, a CD123-directed antibody-active molecule conjugate (ADC). Pivekimab is used in the study of blastic plasmacytoid dendritic cell neoplasm (BPDCN).

## Reported Applications

ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways

## Immunogen Information

### Clone

Pivekimab Biosimilar

### Isotype

Human IgG1 kappa

### Immunogen

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

1×PBS pH 7.3

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

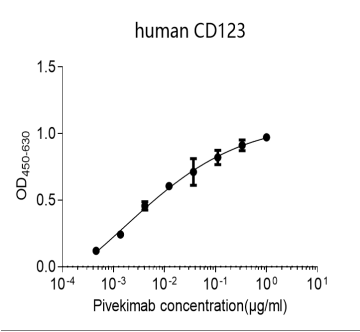
### Purification

Protein A or G purification

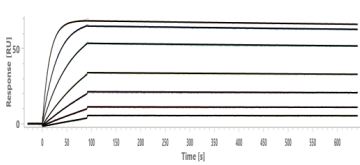
### Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)

# Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human CD123 (Research Grade Pivekimab Biosimilar) Monoclonal Antibody to CD123. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Human CD123 SPR assay. Determined through SPR assay, the Human Anti-Human CD123 (Research Grade Pivekimab Biosimilar) Monoclonal Antibody is Capable of binding to Human Trop-2 with an affinity constant of 43.22pM.