

# Human CD3 Monoclonal Antibody

Catalog No.: YR0127

## 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

Muromonab (OKT-3) is a monoclonal anti-CD3 antibody used as immunosuppressive therapy in kidney, heart, and liver transplant patients. Murine monoclonal antibody specific to CD3 T-cell lymphocyte antigens. More specifically it is a purified murine (mouse) monoclonal antibody, directed against the CD3 (T3) receptor on the surface of human T-cells (T-lymphocytes) cultured using the murine ascites method. Muromonab is 93% monomeric immune globulin G type 2a (IgG2a). Muromonab binds to the T-cell surface glycoprotein CD3 epsilon chain. It appears to kill CD-3 positive cells by inducing Fc mediated apoptosis, antibody mediated cytotoxicity and complement-dependent cytotoxicity.

## Reported Applications

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

## Immunogen Information

### Clone

Muromonab Biosimilar

### Isotype

Mouse IgG2a kappa

### Immunogen

Human CD3

### Recommended Isotype Control(s)

In Vivo Grade Recombinant Mouse IgG2a Kappa Isotype Control Antibody

### Recommended Dilution Buffer

1×PBS pH 7.4

## 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)