

# Natalizumab Biosimilar, Integrin alpha 4 Monoclonal Antibody

Catalog No.: YR0128

## Basic Information

### Molecular Weight

150 kDa

### Endotoxin

<1EU/mg (<0.001EU/ $\mu$ g) Determined by LAL gel clotting assay

### Sterility

0.2  $\mu$ m filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Natalizumab is a monoclonal anti-integrin antibody which binds to the alpha 4 subunit of integrins to prevent migration of immune cells, and is used to treat Crohn's disease or multiple sclerosis. Humanized IgG4k monoclonal antibody produced in murine myeloma cells. Natalizumab contains human framework regions and the complementarity-determining regions of a murine antibody that binds to  $\alpha$ 4-integrin. Binds to the  $\alpha$ 4-subunit of  $\alpha$ 4b 1 and  $\alpha$ 4b 7 integrins expressed on the surface of all leukocytes except neutrophils, and inhibits the  $\alpha$ 4-mediated adhesion of leukocytes to their counter-receptor(s).

## Reported Applications

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

## Immunogen Information

### Clone

Natalizumab

### Isotype

human IgG4 kappa

### Immunogen

Human Integrin alpha 4

### Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG4-S228P Kappa Isotype Control Antibody

### Recommended Dilution Buffer

1xPBS pH 7.0

## 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

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