

# Ramucirumab Biosimilar, Human VEGFR2 Monoclonal Antibody

Catalog No.: YR0132

## 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

Ramucirumab, a fully human IgG1 monoclonal antibody and a direct VEGFR2 antagonist, binds with high affinity to the extracellular domain of VEGFR2 and block the binding of natural VEGFR ligands (VEGF-A, VEGF-C and VEGF-D). These ligands are secreted by solid tumors to promote angiogenesis (formation of new blood vessels from pre-existing ones) and enhance tumor blood supply. Binding of ramucirumab to VEGFR2 leads to inhibition of VEGF-mediated tumor angiogenesis. Kinase insert domain receptor (KDR, a type IV receptor tyrosine kinase, CD309, cluster of differentiation 309, Flk1, Fetal Liver Kinase 1) is the human gene encoding vascular endothelial growth factor receptor 2 (VEGFR-2), which is a VEGF receptor. The Q472H germline KDR genetic variant affects VEGFR-2 phosphorylation and has been found to associate with microvessel density in NSCLC.

## Reported Applications

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

## Immunogen Information

### Clone

Ramucirumab

### Isotype

Human IgG1 kappa

### Immunogen

Human VEGFR2

### Recommended Isotype Control(s)

In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

### Recommended Dilution Buffer

1×PBS 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)