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Anti-VEGFR2 hIgG1 Antibody(ramucirumab)

Product information

GM-80717AB-10	10 μg
GM-80717AB-100	100 μg
GM-80717AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Clone	Ramucirumab
Source/Isotype	Monoclonal human IgG1/κ
Application	Bioactivity-ELISA
Specificity	Detects VEGFR2
Gene	VEGFR2
Other Names	CD309, FLK1, VEGFR, KDR
Gene ID	3791 (human)
Background	VEGFR2 (Vascular Endothelial Growth Factor Receptor 2), also known as KDR (Kinase Insert Domain Receptor) or FLK-1, is a key member of the vascular endothelial growth factor receptor family and is primarily expressed on the surface of vascular endothelial cells. As a tyrosine kinase receptor, VEGFR2 binds to its ligands (such as VEGF-A), activating its tyrosine kinase activity and initiating a series of downstream signaling cascades, including the PI3K/AKT, RAS/RAF/MEK/ERK, and PLCγ pathways. These signaling pathways play critical roles in regulating cell proliferation, migration, and survival.Ramucirumab is a monoclonal antibody targeting VEGFR2. By blocking the interaction between VEGF and VEGFR2, it inhibits angiogenesis and has been approved for the treatment of various cancers. This targeted therapeutic strategy has demonstrated significant efficacy in suppressing tumor angiogenesis, thereby preventing tumor growth and metastasis.
Storage	Store at 2-8℃ short term (1-2 weeks).Store at ≤ -20℃ long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Bioactivity-ELISA

Human VEGFR2 Protein; His Tag (Catalog # GM-87862RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-VEGFR2 hIgG1 Antibody(ramucirumab) (Catalog # GM-80717AB) were added.

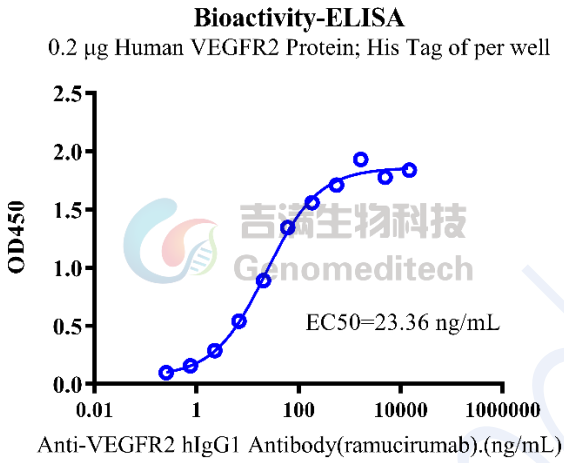

Fig. assay