

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Cyr61/CCN1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Cyr61 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 466305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Cyr61/CCN1 Asp176-Gly281 Accession # P18406
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Cyr61, also known as IGFBP-10 and CCN1, is a 50 kDa secreted matrix- and cell-associated glycoprotein that regulates the growth and adhesion of vascular endothelial cells, fibroblasts, and monocytes. Cyr61 interacts with cells that express integrins αVβ3, αVβ5, αMβ2, and α6β1. Cyr61 is cleaved by plasmin within its VWF domain which generates an N-terminal fragment that is not associated with the matrix but retains the ability to induce endothelial cell migration. Cyr61 induces VEGF upregulation, angiogenesis, and tumorigenesis. Between amino acids 176-281, mouse Cyr61 shares 87% and 97% amino acid sequence identity with human and rat Cyr61, respectively.

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