

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tumstatin in direct ELISAs. In direct ELISAs, less than 25% cross-reactivity with recombinant human Collagen IV alpha 1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 762102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Tumstatin
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.

Western Blot 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

Tumstatin is a naturally occurring, anti-angiogenic, anti-tumor peptide of 28 kDa that constitutes the NC1 (non-collagenous) domain of the Collagen IV α3 chain [amino acids (aa) 1427-1670 of Coll IV α3;]. It is liberated from basement membranes by MMP-9, and interacts with Integrin αVβ3 on endothelial cells, causing cell cycle arrest, or apoptosis of cells that are proliferating. Human Tumstatin is also active on mouse and bovine endothelial cells. Human Tumstatin shares 91% and 89% aa sequence identity with mouse and rat Tumstatin, respectively.

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