

Human Tumstatin Antibody

Monoclonal Mouse IgG₁ Clone # 762102 Catalog Number: MAB7546

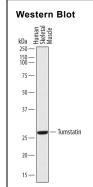
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Tumstatin in direct ELISAs. In direct ELISAs, less than 25% cross-reactivity with recombinant human Collagen IV alpha 1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 762102
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human Tumstatin
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA



Detection of Human Tumstatin by Western Blot. Western blot shows lysates of human skeletal muscle tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Tumstatin Monoclonal Antibody (Catalog # MAB7546) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Tumstatin at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

P	R	E	PΑ	١R	A٦	I	0	N	Α	N	ID	S	T	O	R	A	G	Ε

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 a3 chain [amino acids (aa) 1427-1670 of Coll IV a3;]. It is liberated from basement membranes by MMP-9, and interacts with Integrin aVb3 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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