

## DESCRIPTION

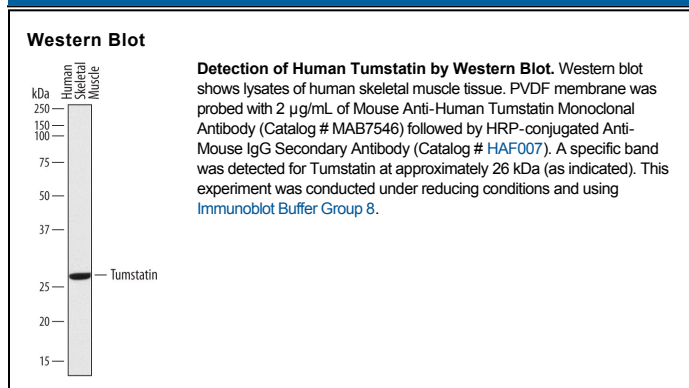
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Tumstatin in direct ELISAs. In direct ELISAs, less than 25% cross-reactivity with recombinant human Collagen IV alpha 1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 762102
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Tumstatin
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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
<b>Western Blot</b>	2 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.