

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ADAMTS15 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 561819
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS15 Gly18-Cys682 Accession # Q8TE58
<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 either lyophilized or as a 0.2 µm filtered solution in PBS.

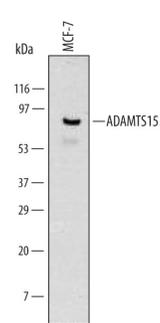
**APPLICATIONS**

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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

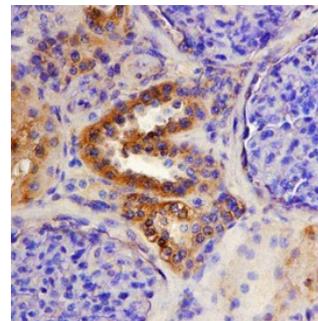
**DATA**

**Western Blot**



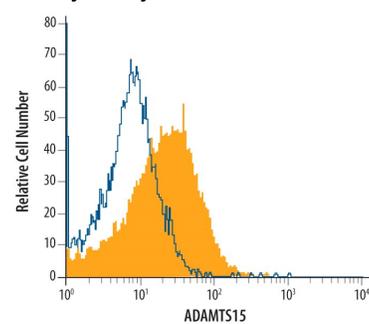
**Detection of Human ADAMTS15 by Western Blot.** Western blot shows lysates of MCF-7 human breast cancer cell line. PVDF Membrane was probed with 2 µg/mL of Human ADAMTS15 Monoclonal Antibody (Catalog # MAB5149) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for mature ADAMTS15 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunohistochemistry**



**ADAMTS15 in Human Kidney.** ADAMTS15 was detected in immersion fixed paraffin-embedded sections of human kidney using Human ADAMTS15 Monoclonal Antibody (Catalog # MAB5149) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**Flow Cytometry**



**Detection of ADAMTS15 in MCF-7 Human Cell Line by Flow Cytometry.** MCF-7 human breast cancer cell line was stained with Human ADAMTS15 Monoclonal Antibody (Catalog # MAB5149, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')<sub>2</sub> Secondary Antibody (Catalog # F0102B).

**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

A disintegrin and metalloproteinase with thrombospondin motifs 15 (ADAMTS15) is a secreted multi-domain protease that is primarily expressed in fetal liver and kidney. ADAMTS1, 4, 5, 8, and 15 form a subfamily of ADAMTS proteases that possess aggrecanase activity. These proteins are synthesized as zymogens which have a pro-domain that is removed by furin-like protein convertases. ADAMTS15 functions as a suppressor of tumor growth and invasion. It is downregulated in colon cancer, and its expression in breast cancer correlates with poor prognosis. Within amino acids (aa) 18-682 (which includes the propeptide, peptidase, disintegrin, first TSP-1 and most of the Cys-rich domain), human ADAMTS15 shares 95% aa sequence identity with mouse and rat ADAMTS15.