

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAMTS15 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 561819
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS15 Gly18-Cys682 Accession # Q8TE58
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	MCF-7 human breast cancer cell line

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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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