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Datasheet for 600-401-R07

# ADAMTS2 Antibody

## Overview

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| **Description:** | Anti-ADAMTS2 (RABBIT) Antibody - 600-401-R07 |
| **Item No.:** | 600-401-R07 |
| **Size:** | 100 µg |
| **Reactivity:** | H. sapiens (Human), Mus musculus (Mouse), Rattus (Rat) |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | ADAMTS2, A disintegrin and metalloproteinase with thrombospondin motifs 2, also known as procollagen I N-proteinase (PC I-NP), is an enzyme that in humans is encoded by the ADAMTS2 gene. The ADAMTS2 gene contains 22 exons. The human ADAMTS2 gene is mapped to chromosome 5q23-q24 by analysis of somatic cell hybrids. ADAMTS2 is responsible for processing several types of procollagen proteins. Procollagens are the precursors of collagens, the proteins that add strength and support to many body tissues. Specifically, this enzyme clips a short chain of amino acids off one end of the procollagen. This clipping step is necessary for collagen molecules to function normally and assemble into fibrils outside cells. This antibody is suitable for researchers interested in signal transduction, extracellular matrix antibodies and cancer research. |
| **Synonyms:** | Procollagen I N-proteinase, |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | ADAMTS2 |
| **Reactivity:** | H. sapiens (Human), Mus musculus (Mouse), Rattus (Rat) |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | ADAMTS2 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a sequence at the C-terminal of human ADAMTS2. |
| **Purity/Specificity:** | Anti-ADAMTS2 antibody is directed against human ADAMTS2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, mouse, and rat based on homology for the immunogen sequence. Cross reactivity with ADAMTS2 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - O95450<br>• GeneID - 9509<br>• NCBI - NP_055059.2 |

## Application Details

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| **Application Note:** | Anti-ADAMTS2 is useful for Immunohistochemistry -P, -F, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~134.8 kDa corresponding to the appropriate cell lysate or extract. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **IHC:** | 1:100-1:500 |
| **WB:** | 0.5µg/mL |

## Formulation

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| **Physical State:** | Lyophilized |
| **Concentration:** | 100 µg/vial by dry weight |
| **Buffer:** | 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3 |
| **Preservative:** | 0.05mg Thimerosal |
| **Stabilizer:** | 5mg BSA |
| **Reconstitution Volume:** | 100 µL |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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| **Shipping Condition:** | Ambient |

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| **Storage Condition:** | Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Disclaimer