

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ADAM12 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human ADAM8, 9, 10, 15, 17, 19, 22, 23, 32, or 33 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 632525
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human ADAM12 Arg29-Ser513 Accession # O43184
<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>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human ADAM12 (Catalog # 4416-AD), see our available <a href="#">Western blot detection antibodies</a>

**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**

ADAM12 (A disintegrin and metalloprotease domain 12; also Meltrin-a) is a 120 kDa type I transmembrane glycoprotein member of the metzincin family of proteases. It is synthesized as a 909 amino acid (aa) preproprecursor that contains a 25 kDa proregion (aa 29-207) and a 92 kDa mature molecule. Proteolytic cleavage in the Golgi removes the propeptide prior to cell-surface expression. A 68 kDa soluble splice form exists in pregnancy where 36 amino acids replace the C-terminal 205 aa (705-909). This circulating ADAM12 isoform remains associated with its prodomain via noncovalent linkage, possibly acting as an enzyme regulator. Over aa 29-513, human ADAM12 shares 78% and 79% aa identity with bovine and mouse ADAM12, respectively.