

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 632525
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAM12 Arg29-Ser513 Accession # O43184
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.
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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. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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