

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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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