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Product datasheet for AP08971PU-N

ADAM12 (N-term) Goat Polyclonal Antibody

Product data:

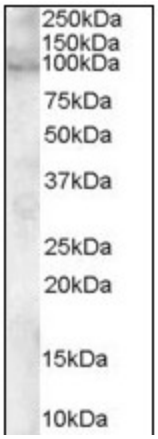
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**ELISA:** 1/64000. **Immunohistochemistry on Paraffin Sections:** 3.75 µg/ml. **Western Blot:** 0.1 - 0.3 µg/ml.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide sequence AARPLPVSPARALC from the N-Terminal region of ADAM-12
Specificity:	This antibody reacts to A Disintegrin And Metalloproteinase Domain 12 (ADAM12).
Formulation:	Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ADAM metallopeptidase domain 12
Database Link:	Entrez Gene 8038 Human O43184

View online »

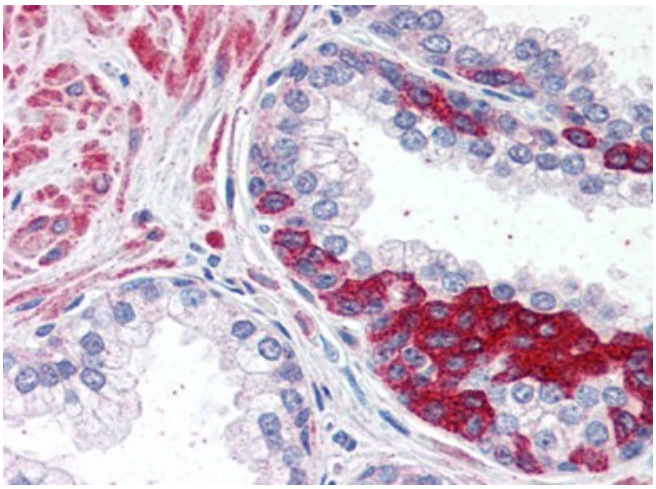
Background: ADAM12 is a member of the ADAM (a disintegrin and metalloprotease like domain) family. Two forms of ADAM12 have been described: ADAM12S and ADAM12L (short and long forms). The short form is a soluble form lacking the transmembrane and cytoplasmic domains. The short form of ADAM12 was reported to provoke myogenesis, and the lack of cytoplasmic domain suggests different regulation pathways (although both forms can be expressed in the same tissue). Other papers investigated the SH3 ligand domains in the cytoplasmic portion of ADAM12, demonstrating regulation routes for ADAM12 via Src and Src tyrosine kinase. ADAM12 is primarily expressed in muscle and bone (although placenta, osteoblasts, and many tumor cell lines also express ADAM12). ADAM12 supports cell adhesion by acting as a cell attachment molecule and binding integrins through the cysteine rich domain. A marker of skeletal muscle regeneration, it has been implicated in myoblast differentiation and fusion. ADAM12 contains the canonical HExxHxxxxxH zinc metalloproteinase motif. Full length ADAM12 (909 amino acids) has a predicted mass of 99.5 kDa, but due to glycosylation and cyteine rich regions, the reduced protein migrates to 114 kDa (unprocessed) and 84 kDa (processed). The soluble form of ADAM12 (738 amino acids, predicted mass of 80.5 kDa) is seen as a 92 kDa zymogen and 68 kDa furin processed form.

Synonyms: Meltrin alpha

Product images:



Antibody staining (0.1ug/ml) of human heart lysate (RIPA buffer, 30ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)