

去整合素样金属蛋白酶 12

产品货号： mlR4977

英文名称： ADAM12

中文名称： 去整合素样金属蛋白酶 12

别名： MLTN; A disintegrin and metalloproteinase domain 12; A disintegrin and metalloproteinase domain 12; ADA12_HUMAN; ADAM 12; ADAM metalloproteinase domain 12; Disintegrin and metalloproteinase domain-containing protein 12; MCMP; MCMPMLtna; MCMPMLtna; Meltrin alpha; Meltrin-alpha; MLTN; MLTNA; OTTHUMP00000046766.

研究领域： 肿瘤 细胞生物 免疫学 信号转导 细胞粘附分子 细胞骨架 细胞外基质 泛素

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 77/100kDa

细胞定位： 细胞膜 分泌型蛋白

性状： Lyophilized or Liquid

浓度： 1 mg/ml

免疫原： KLH conjugated synthetic peptide derived from human ADAM12/MLTN:251-350/909
<Extracellular>

亚 型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 癯 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 癯. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癯.

PubMed： PubMed

产品介绍： ADAM (a disintegrin and metalloprotease) proteins are a family of over 30 membrane-anchored, glycosylated, Zn²⁺ dependent proteases that are involved in cell-cell, cell-matrix interface related processes including fertilization, muscle fusion, secretion of TNF α (tumor necrosis factor α), and modulation of the neurogenic function of Notch and Delta (1-3). ADAM proteins possess a signal-domain, a pro-domain, a metalloprotease domain, a disintegrin domain (Integrin ligand), a cysteine-rich region, an epidermal growth factor-like domain, a transmembrane domain and a cytoplasmic tail (1-3). ADAMs are expressed in brain, testis, epididymis, ovary, breast, placenta, liver, heart, lung, bone, and muscle, and catalyze proteolysis, adhesion, fusion, and intracellular signaling (3). ADAM 12 (Meltrin-a) is produced as 2 differentially spliced isoforms, a 718 amino acid secreted form (ADAM12S) and a 881 amino acid membrane-bound form (ADAM12L), and is involved in egg-sperm fusion (4-6).

Function:

Involved in skeletal muscle regeneration, specifically at the onset of cell fusion. Also involved in macrophage-derived giant cells (MGC) and osteoclast formation from mononuclear precursors (By similarity).

Subunit:

Interacts with alpha-actinin-2 and with syndecans (By similarity). Interacts with SH3PXD2A. Interacts with FST3. Interacts with GNB2L1/RACK1; the interaction is required for PKC-dependent translocation of ADAM12 to the cell membrane.

Subcellular Location:

Isoform 1: Cell membrane; Single-pass type I membrane protein.

Isoform 2: Secreted.

Isoform 3: Secreted (Potential).

Isoform 4: Secreted (Potential).

Tissue Specificity:

Isoform 1 is expressed in placenta and skeletal, cardiac, and smooth muscle. Isoform 2 seems to be expressed only in placenta or in embryo and fetus. Both forms were expressed in some tumor cells lines. Not detected in brain, lung, liver, kidney or pancreas.

Post-translational modifications:

The precursor is cleaved by a furin endopeptidase (By similarity).

Similarity:

Contains 1 disintegrin domain.

Contains 1 EGF-like domain.

Contains 1 peptidase M12B domain.

SWISS:

O43184

Gene ID:

8038

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

