

去整合素样金属蛋白酶 2 抗体

产品货号： mlR20815

英文名称： ADAM2

中文名称： 去整合素样金属蛋白酶 2 抗体

别名： A disintegrin and metalloproteinase domain 2; ADAM 2; ADAM metalloproteinase domain 2; ADAM2_MOUSE; AI323749; Cancer/testis antigen 15; CRYN1; CRYN2; CT15; Disintegrin and metalloproteinase domain-containing protein 2; Fertilin beta; Fertilin subunit beta; Ftnb; PH 30; PH 30b; PH-30; PH30; Ph30 beta; PH30-beta.

研究领域： 肿瘤 细胞生物 免疫学 信号转导 激酶和磷酸酶 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,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500
(石蜡切片需做抗原修复)

not yet tested in other applications.

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

分 子 量 : 63/80kDa

细胞定位 : 细胞膜

性 状 : Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from mouse ADAM2:451-550/735 <Extracellular>

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4

保存条件 : Store at -20 ° C 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° C. 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 ° C.

PubMed : PubMed

产品介绍 background:

ADAM-2, also known as PH-30 and Fertilin-2 was first described as a sperm-egg fusion protein from guinea pig. A member of the metalloproteinase family containing disintegrin-like domains (ADAMs), the function of ADAM-2 is still poorly understood. Unlike ADAM-1, ADAM-2 does not contain the canonical HExxHxxxxH zinc metalloproteinase motif, and is not thought to be proteolytically active. Like the other ADAMs, ADAM-2 domain structure consists of a signal sequence followed by a propeptide domain, a metalloproteinase domain, a disintegrin domain cysteine-rich domain, an EGF-like domain, a transmembrane domain, and a cytoplasmic domain. Three isoforms of ADAM-2 are reported to date, which differ in the beginning of the metalloproteinase domain and cysteine-rich domain. The sequences are coded from intronless genes. The longest ADAM-2 message encodes a protein of 735 amino acids, with a predicted mass of 82.5 kDa and a pI of 5.73. The 716 amino acid form of ADAM-2 has a deletion in the start of the metalloproteinase domain, relative to the longer form, and has a predicted mass of 80.2 kDa and pI of 5.75. The shorter form of 579 amino acids shared the deletion in the MP domain, and also has a deletion in the cysteine-rich domain. Localized on the surface of sperm, the ADAM-2 isoforms are thought to form a heterodimer with ADAM-1 (fertilin-a), and facilitate sperm-egg fusion, although there is some controversy about the precise actions the proteins play. Integrin $\alpha 6$ on the egg surface is thought to dock with a QDECD motif in the disintegrin domain of ADAM-2, and there is some speculation that ADAM-1/ADAM-2 heterodimer initiated ADAM-3 production on the cell surface.

Function:

Sperm surface membrane protein that may be involved in sperm-egg plasma membrane adhesion and fusion during fertilization. Could have a direct role in sperm-zona binding or migration of sperm from the uterus into the oviduct. Interactions with egg membrane could be mediated via binding between its disintegrin-like domain to one or more integrins receptors on the egg. This is a non catalytic metalloprotease-like protein.

Subunit:

Heterodimer with ADAM1/fertilin subunit alpha.

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Expressed specifically in testis.

Post-translational modifications:

The prodomain and the metalloprotease domain are cleaved during the epididymal maturation of the spermatozoa.

Similarity:

Contains 1 disintegrin domain.

Contains 1 EGF-like domain.

Contains 1 peptidase M12B domain.

SWISS:

Q60718

Gene ID:

11495

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

