

Anti-ADAM2 Picoband Antibody

Catalog # ABO10339

Product Information

Application	WB
Primary Accession	Q99965
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Disintegrin and metalloproteinase domain-containing protein 2(ADAM2) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2515
Other Names	Disintegrin and metalloproteinase domain-containing protein 2, ADAM 2, Cancer/testis antigen 15, CT15, Fertilin subunit beta, PH-30, PH30, PH30-beta, ADAM2, FTNB
Calculated MW	82457
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed specifically in spermatogenic cells in the seminiferous cells. Not detected in fetal tissues.
Source	Eukaryota
Protein Name	Disintegrin and metalloproteinase domain-containing protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ADAM2 (231-274aa WIDENKIATTGEANELHTFLRWKTSYLVLRPHDVAFLLVYREK), different from the related mouse and rat sequences by eleven amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
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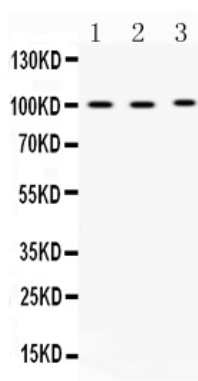
Protein Information

Name	ADAM2
Synonyms	FTNB
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.
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Expressed specifically in spermatogenic cells in the seminiferous cells. Not detected in fetal tissues

Background

ADAM2 (A Disintegrin and Metalloproteinase Domain 2), also known as FTNB or PH30, is an enzyme that in humans is encoded by the ADAM2 gene. This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This member is a subunit of an integral sperm membrane glycoprotein called fertilin, which plays an important role in sperm-egg interactions. This gene is mapped to 8p11.2.

Images



Western blot analysis of ADAM2 expression in rat testis extract (lane 1), mouse testis extract (lane 2) and MCF-7 whole cell lysates (lane 3). ADAM2 at 100KD was detected using rabbit anti- ADAM2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10339) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.