

Anti-ADAM2 Antibody

Catalog # ABO11375

Product Information

Application	WB
Primary Accession	Q99965
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Disintegrin and metalloproteinase domain-containing protein 2(ADAM2) detection. Tested with WB in Human.
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
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 Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ADAM2(701-715aa VLIAIMVKVNFQRKK).
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

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Contains 1 disintegrin domain.

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. Burkin et al.(1997) used fluorescence in situ hybridization to map the FTNB gene to 8p11.2.

Images



Anti-ADAM2 antibody, ABO11375, Western blottingWB:
SMMC Cell Lysate

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