



## Rabbit Anti-FNDC3A antibody

SL13191R

<b>Product Name:</b>	FNDC3A
<b>Chinese Name:</b>	Ⅲ型纤维连接蛋白域蛋白3A抗体
<b>Alias:</b>	Fibronectin type III domain containing protein 3a; FNDC3; HUGO; KIAA0970; FND3A_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	125kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human FNDC3A:501-600/1198
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	FNDC3A is a 1,134 amino acid protein that belongs to the FNDC3 family of proteins. FNDC3A contains an N-terminal proline-rich region, nine fibronectin type-III domains (none of which contain an RGD sequence) and a hydrophobic C-terminal transmembranous helix. Expressed in a wide variety of tissues, FNDC3A localizes to Golgi vesicles and to the developing acrosome of spermatids. FNDC3A is believed to function in glycosaminoglycan and collagen synthesis. In mice, a mutation in the gene

encoding FNDC3A causes male sterility due to defective adhesion between Sertoli cells and spermatids in the seminiferous epithelium. This suggests that FNDC3A plays an important role in spermatogenesis, possibly mediating or maintaining the adhesion between Sertoli cells and spermatids.

**Function:**

FNDC3A is a member of a three-gene family in mice. It is expressed in several tissues including testis, and encodes a novel protein composed of a proline-rich amino-terminus, nine fibronectin type-III domains, and a hydrophobic carboxy-terminus. The proline-rich region of each family member contains conserved amino acids that include a PPGY consensus binding site for type I WW domain containing proteins. The hydrophobic carboxy-terminus is similar to that found in 'tail-anchored' proteins, integral membrane proteins that are localized to the cytosolic face of the endoplasmic reticulum. Immunohistochemical staining has shown that FNDC3A localizes to the acrosome of spermatids, as well as to Leydig cells in the mouse testis. FNDC3A may be involved in mediating spermatid-Sertoli adhesion during mouse spermatogenesis and mutation of FNDC3A is the cause of male sterility in sys mice. FNDC3A has also been found to be overexpressed in human odontoblasts.

**Subcellular Location:**

Golgi apparatus membrane; Single-pass membrane protein (Potential).

**Tissue Specificity:**

Expressed in the odontoblast and nerves in the dental pulp. Also expressed in trachea and to a lesser extent in the brain, liver, lung and kidney.

**Similarity:**

Belongs to the FNDC3 family. Contains 9 fibronectin type-III domains.

**SWISS:**

Q9Y2H6

**Gene ID:**

22862

**Database links:**

[Entrez Gene: 22862](#)Human

[SwissProt: Q9Y2H6](#)Huma

**Important Note:**

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

