

Anti-HE4 Picoband Antibody

Catalog # ABO12648

Product Information

Application	WB, E
Primary Accession	Q14508
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for WAP four-disulfide core domain protein 2(WFDC2) detection. Tested with WB, ELISA in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10406
Other Names	WAP four-disulfide core domain protein 2, Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, WFDC2, HE4, WAP5
Calculated MW	12993
Application Details	ELISA , 0.1-0.5 μ g/ml, Human, - Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Secreted .
Tissue Specificity	Expressed in a number of normal tissues, including male reproductive system, regions of the respiratory tract and nasopharynx. Highly expressed in a number of tumors cells lines, such ovarian, colon, breast, lung and renal cells lines. Initially described as being exclusively transcribed in the epididymis. .
Source	Eukaryota
Protein Name	WAP four-disulfide core domain protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human HE4 recombinant protein (Position: E31-F124). Human HE4 shares 40.4% and 68% amino acid (aa) sequence identity with mouse and rat HE4, respectively.
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.

Protein Information

Name	WFDC2 (HGNC:15939)
Function	Plays a critical role in lung development (By similarity). Required for terminal differentiation of bronchiole club cells (By similarity). Required for development of airway barrier mechanisms, such as lamellar body formation in type II alveolar epithelial cells and cilia formation on ciliated epithelial cells following initiation of respiration at birth (By similarity). Required for type I alveolar epithelial cell and vascular endothelial development in the lungs, thereby mediating blood-air barrier exchange (By similarity).
Cellular Location	Secreted.
Tissue Location	Expressed in lung, trachea, kidney, breast, fallopian tubes, endometrium, cervix, epididymis and prostate

Background

WAP four-disulfide core domain protein 2, also known as Human Epididymis Protein 4 (HE4), is a protein that in humans is encoded by the WFDC2 gene. This gene encodes a protein that is a member of the WFDC domain family. The WFDC domain, or WAP Signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor in many family members. This gene is expressed in pulmonary epithelial cells, and was also found to be expressed in some ovarian cancers. The encoded protein is a small secretory protein, which may be involved in sperm maturation.

Images



Western blot analysis of HE4 expression in 22RV1 whole cell lysates (lane 1). HE4 at 25KD was detected using rabbit anti- HE4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12648) 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'.