

## Human Epididymal protein 4 (HE4) ELISA Kit

Catalog No: #EK5837



Package Size: #EK5837-1 48T #EK5837-2 96T

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## Description

Product Name	Human Epididymal protein 4 (HE4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	EDDM4; WFDC2; MGC57529; WAP5; dJ461P17.6; WAP domain containing protein HE4-V4 epididymal protein 4 epididymal secretory protein E4 epididymis-specific; whey-acidic protein type; four-disulfide core m
Accession No.	Q14508
Uniprot	Q14508
GeneID	10406;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.126 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate HE4 in samples. An antibody specific for HE4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHE4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HE4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of HE4 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**WAP four-disulfide core domain protein 2 is 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. 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.

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Note: This product is for in vitro research use only