

Human HE4 ELISA Kit | WFDC2 elisa kit

Human HE4 PicoKine ELISA Kit

CATALOG #
AAA46668

REACTIVITY
Human

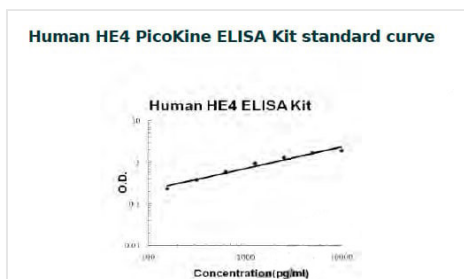
PRODUCT SYNONYMS

HE4; Human HE4 PicoKine ELISA Kit; EDDM4; epididymal protein 4; HE 4; WAP 5; WAP5; WFDC 2; WFDC2; Q14508; WAP four-disulfide core domain protein 2; WAP four-disulfide core domain 2; WFDC2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human WFDC2
Sequence Length	124
Samples	Cell culture supernatants, serum, plasma (heparin, edta), saliva, urine and human milk
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<15 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for WFDC2 elisa kit	Principle of the Assay: The Picokine™ Human WFDC2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human WFDC2 with a 96-well strip plate that is pre-coated with antibody specific for WFDC2. The detection antibody is a biotinylated antibody specific for WFDC2. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from sheep. The kit contains recombinant Human WFDC2 with immunogen: Expression system for standard: E.coli; Immunogen sequence: E31-F124. The kit is analytically validated with ready-to-use reagents. To measure Human WFDC2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human WFDC2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human WFDC2 in the sample. Background/Introduction: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56699495
NCBI GeneID	10406
NCBI Accession #	NP_006094.3
NCBI GenBank Nucleotide #	NM_006103.3
UniProt Accession #	Q14508; Q6IB27; Q8W XV9; Q8W XW0; Q8W XW1; Q8W XW2; Q96KJ1; A2A2A5; A2A2A6; A6PVD5
Molecular Weight	11,043 Da
NCBI Official Full Name	WAP four-disulfide core domain protein 2
NCBI Official Synonym Full Names	WAP four-disulfide core domain 2
NCBI Official Symbol	WFDC2
NCBI Official Synonym Symbols	HE4; WAP5; EDDM4; dJ461P17.6
NCBI Protein Information	WAP four-disulfide core domain protein 2
UniProt Protein Name	WAP four-disulfide core domain protein 2
UniProt Gene Name	WFDC2
UniProt Synonym Gene Names	HE4; WAP5
UniProt Entry Name	WFDC2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.