

# Recombinant Human HE4

Cat. No. HE4-69H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human Epididymis protein 4 was expressed in Yeast.

**Species** Human

**Source** Yeast

### Description

WAP four-disulfide core domain protein 2, also known as Epididymalsecretory protein E4, Major epididymis-specific protein E4, Putativeprotease inhibitor WAP5, WFDC2 and HE4, is a secreted protein whichcontains twoWAP domains. WFDC2 / HE4 is a member of a family ofstable 4-disulfide core proteins that are secreted at high levels. It is expressed in a number of normal tissues, including male reproductive system, regions of the respiratory tract and nasopharynx. It is 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. WFDC2 may be a component of the innateimmune defences of the lung, nasal and oral cavities and suggest that WFDC2 functions in concert with related WAP domain containing proteins in epithelial host defence. WFDC2 re-expression in lung carcinomas may prove to be associated with tumour type and should be studied in further detail. Mammary gland expression of tammar WFDC2 during the course of lactation showed WFDC2 was elevated during pregnancy, reduced in early lactation and absent in mid-late lactation. WFDC2 / HE4 can undergo a complex series of alternative splicing events that can potentially yield five distinct WAP domain containing protein isoforms.

**Form** Lyophilized from sterile 20mM PB,240mM NaCl,PH6.0.

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<b>Molecular Mass</b>	11.3 kDa
<b>Endotoxin</b>	< 1.0 eu per µg of the protein as determined by the LAL method.
<b>Purity</b>	>95 % as determined by SDS-PAGE
<b>Applications</b>	Western blotting, ELISA
<b>Storage</b>	Store it under sterile conditions at -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -80°C.

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