RP00534

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Recombinant Human HE4/WFDC2 Protein

Catalog No.: RP00534 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	10406	Q14508

Tags
C-6×His

Synonyms
EDDM4; HE4; WAP5; dJ461P17.6;WFDC2;HE4;WAP5;dJ461P17.6

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

WAP Four-Disulfide Core Domain Protein 2 (WFDC2) is a 25 kDa secreted glycoprotein containing two WAPdomains. Mature human WFDC2 is 94 amino acids (aa) in length. It contains two WAP domains that likelymediate antiprotease and/or antimicrobial activity.WFDC2 is a member of a family of stable 4-disulfide coreproteins that are secreted at high levels. It is expressed by a wide variety of epithelial cells, includingrespiratory epithelium, salivary gland mucous cells, breast duct epithelium, distal tubule renal epithelium, andepididymal epithelium. WFDC2 may be a component of the innate immune defences of the lung, nasal and oralcavities and suggest that WFDC2 functions in concert with related WAP domain containing proteins inepithelial host defence. WFDC2 re-expression in lung carcinomas may prove to be associated with tumour typeand should be studied in further detail. Mammary gland expression of tammar WFDC2 during the course oflactation showed WFDC2 was elevated during pregnancy, reduced in early lactation and absent in mid-latelactation. WFDC2 can undergo a complex series of alternative splicing events that can potentially yield fivedistinct WAP domain containing protein isoforms.

Basic Information

Description
Recombinant Human HE4/WFDC2 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Glu31-Phe124) of human HE4/WFDC2 (Accession #Q14508) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

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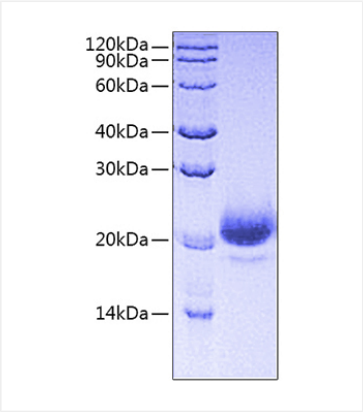
Validation Data



Recombinant Human HE4/WFDC2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.