

Datasheet for ABIN7319181 **WFDC2 Protein (His tag)**



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Overview

Quantity:	50 µg
Target:	WFDC2
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WFDC2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human WFDC2/HE4 Protein (His Tag)
Sequence:	Glu31-Phe124
Characteristics:	Recombinant Human WAP Four-Disulfide Core Domain Protein 2 is produced by our Mammalian expression system and the target gene encoding Glu31-Phe124 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	WFDC2
Alternative Name:	WFDC2/HE4 (WFDC2 Products)
Background:	Background: WAP Four-Disulfide Core Domain Protein 2 (WFDC2) is a 25 kDa secreted glycoprotein containing two WAP domains. Mature human WFDC2 is 94 amino acids (aa) in

Target Details

length. It contains two WAP domains that likely mediate antiprotease and/or antimicrobial activity (aa 31 - 73 and 74 - 123). There are four potential splice variants. One shows a deletion of aa 27-74, while three others show aa substitutions: 28 aa for aa 75-124, 23 aa for aa 1 - 74, and 10 aa for aa 71-124. WFDC2 is a member of a family of stable 4-disulfide core proteins that are secreted at high levels. It is expressed by a wide variety of epithelial cells, including respiratory epithelium, salivary gland mucous cells, breast duct epithelium, distal tubule renal epithelium, and epididymal epithelium. WFDC2 may be a component of the innate immune 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 can undergo a complex series of alternative splicing events that can potentially yield five distinct WAP domain containing protein isoforms.

Synonym: WAP Four-Disulfide Core Domain Protein 2, Epididymal Secretory Protein E4, Major Epididymis-Specific Protein E4, Putative Protease Inhibitor WAP5, WFDC2, HE4, WAP5

Molecular Weight: 11.1 kDa

UniProt: [Q14508](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.