

Mouse Monoclonal Antibody to Human WAP Four-Disulfide Core Domain 2

Cat. No. CAB11627MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Mouse Monoclonal Antibody to Human WAP Four-Disulfide Core Domain 2

Species Human

Source Mouse

Antigen Description

WAP four-disulfide core domain protein 2, also known as Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, WFDC2 and HE4, is a secreted protein which contains two WAP domains. WFDC2 / HE4 is a member of a family of stable 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 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 / HE4 can undergo a complex series of alternative splicing events that can potentially yield five distinct WAP domain containing protein isoforms.

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Specificity	Human WFDC2 / HE4. No cross-reactivity with human cell lysate (293 cell line) in ELISA.
Immunogen	Recombinant Human WFDC2 / HE4 Protein
Isotype	Mouse IgG2a
Clone	6D3B6
Applications	Western blot; ELISA
Dilution	<p>Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human WFDC2 in WB. Using a DAB detection system, the detection limit for Human WFDC2 is approximately 8 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended.</p> <p>Direct ELISA: This antibody can be used at 0.5-1 µg with the appropriate secondary reagents to detect Human WFDC2. The detection limit for Human WFDC2 is approximately 0.0195 ng/well.</p>
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human WFDC2 / HE4. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be

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disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	WFDC2 WAP four-disulfide core domain 2 [Homo sapiens]
Official Symbol	WFDC2
Synonyms	WFDC2; WAP four-disulfide core domain 2; WAP four-disulfide core domain protein 2; dJ461P17.6; EDDM4; epididymal protein 4; HE4; WAP5; epididymal secretory protein E4; putative protease inhibitor WAP5; WAP domain containing protein HE4-V4; major epididymis-specific protein E4; epididymis-specific, whey-acidic protein type, four-disulfide core; MGC57529;
Gene ID	10406
mRNA Refseq	NM_006103
Protein Refseq	NP_006094
UniProt ID	Q14508
Chromosome Location	20q12-q13.2
Function	endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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