

## Product datasheet for **UM800019CF**

### HE4 (WFDC2) Mouse Monoclonal Antibody [Clone ID: UMAB88]

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	UMAB88
<b>Applications:</b>	10k-ChIP, IHC, WB
<b>Recommended Dilution:</b>	IHC 1:100
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 31-124 of human WFDC2 (NP_006094) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	10 kDa
<b>Gene Name:</b>	WAP four-disulfide core domain 2



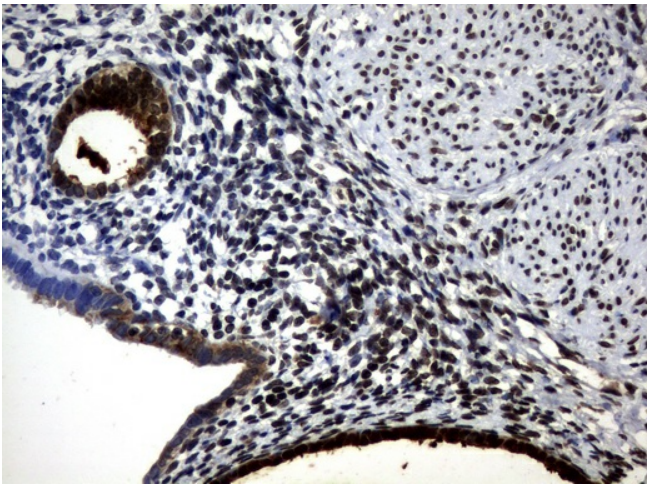
**Database Link:** [NP\\_006094](#)  
[Entrez Gene 10406 Human](#)  
[Q14508](#)

**Background:** 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. [provided by RefSeq, Jul 2008]

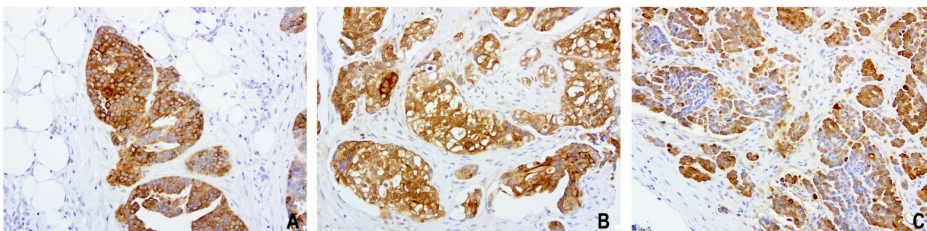
**Synonyms:** dJ461P17.6; EDDM4; HE4; WAP5

**Protein Families:** Secreted Protein, Transmembrane

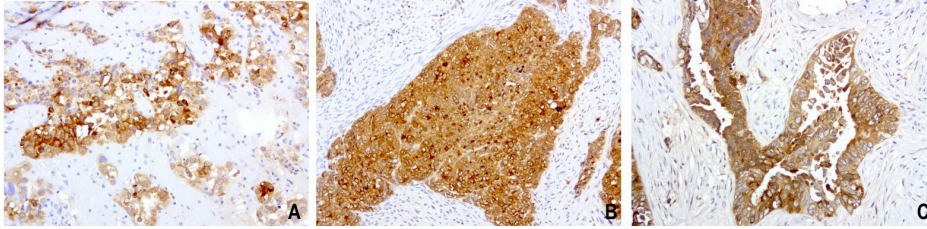
**Product images:**



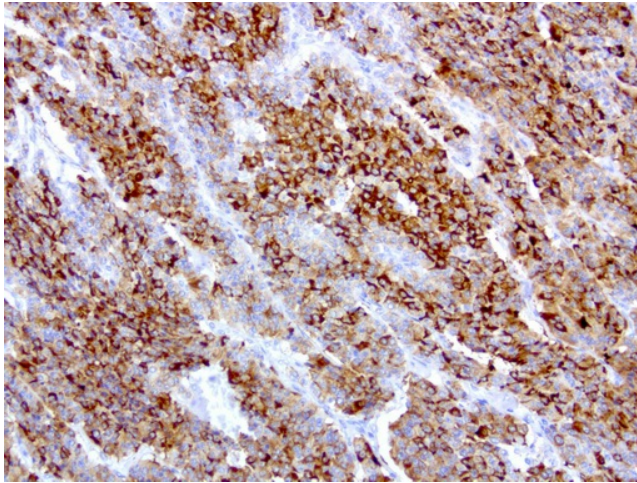
Immunohistochemical staining of paraffin-embedded Human endometrium tissue using anti-WFDC2 mouse monoclonal antibody. ([UM800019]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



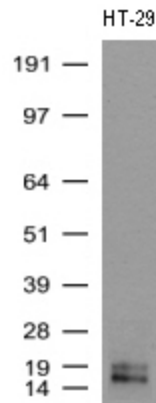
Immunohistochemical staining of paraffin-embedded 3 human ovarian cancer using anti-HE4 clone UMAB88 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM800018] requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The tumor cells show membrane and cytoplasmic staining.



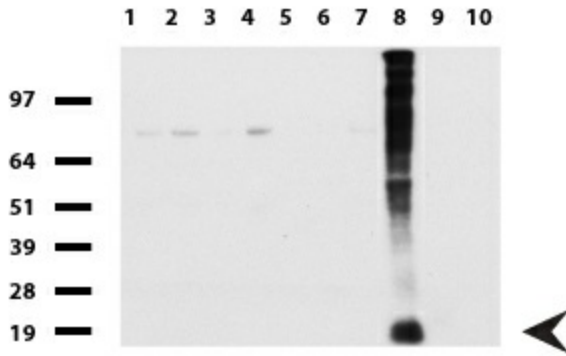
Immunohistochemical staining of paraffin-embedded 3 human endometrial cancer using anti-HE4 clone UMAB88 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM800018] requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The tumor cells show membrane and cytoplasmic staining.



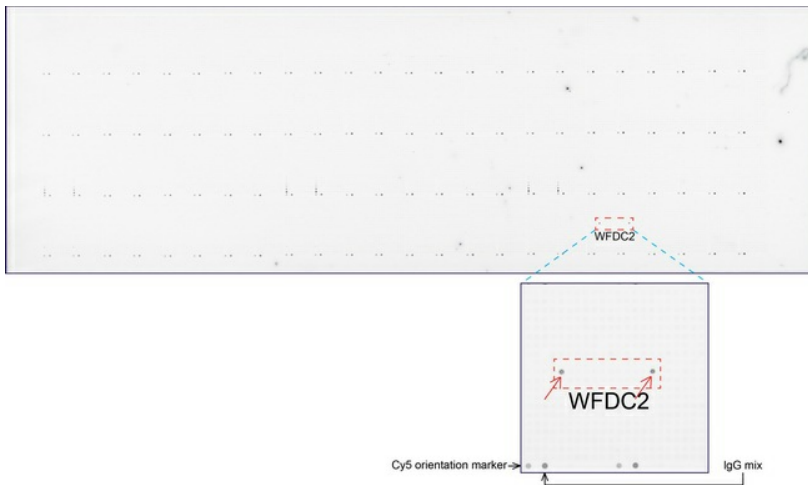
Immunohistochemical staining of paraffin-embedded human lung cancer using anti-HE4 clone UMAB88 mouse monoclonal antibody at 1:200 dilution of 1.0 mg/mL using Polink2 Broad HRP DAB for detection. [UM800018] requires HIER with with citrate pH6.0 at 110°C for 3min using pressure chamber/cooker. The tumor cells show membrane and cytoplasmic staining.



Western Blot analysis of HT-29 cell lysate (35ug) by using anti-WFDC2 monoclonal antibody (Clone UMAB88)



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen ). Dilution: 1:1000.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-WFDC2 mouse monoclonal antibody ([UM800019]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.