Monoclonal Anti- HE4 (Capture or Detection Ab)

Catalog# BDA1036

Lot # Check on the product label

Size 1 mg

Isotype IgG1

Clone # C3

Host Mouse

Reactivity
Human

Product Form Liquid

Purification & Buffer
Protein A or G purified and supplied in 0.9% NaCl without preservative.

Purity >95% by HPLC & SDS-PAGE

Immunogen Human Epididymis Protein 4

Recommend Application
ELISA
Chemilumineseent immunoassay, CLIA
Other applications have not been tested.
The optimal dilutions should be determined by end user.

Matched antibody pair
Capture Ab: Clone # C3 or Clone # B6
Detection Ab: Clone # B6 or Clone # C3

Storage Instruction
Aliquot and store at -20°C for long term (at least one year).
Avoid repeated freeze and thaw cycles.

Background
WAP four-disulfide core domain protein 2 - also known as Human Epididymis Protein (HE4) - is a protein that in humans is encoded by the WFDC2 gene. HE4 is a tumor marker of ovarian cancer, with 80% sensitivity at a cut-off of 150 pmol/L. This gene encodes a protein that is a member of the WFDC domain family. 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.

Reference

1. Hellström I, Raycraft J, Hayden-Ledbetter M, Ledbetter JA, Schummer M, McIntosh M, Drescher C, Urban N, Hellström KE (2003-07-01). "The HE4 (WFDC2) Protein Is a Biomarker for Ovarian Carcinoma". Cancer Research. 63 (13): 3695 – 3700.

2. Kirchhoff C, Habben I, Ivell R, Krull N (Mar 1992). "A major human epididymis-specific cDNA encodes a protein with sequence homology to extracellular proteinase inhibitors". Biol Reprod. 45 (2): 350 – 7.

3. Schummer M, Ng WV, Bumgarner RE, Nelson PS, Schummer B, Bednarski DW, Hassell L, Baldwin RL, Karlan BY, Hood L (Dec 1999). "Comparative hybridization of an array of 21,500 ovarian cDNAs for the discovery of genes overexpressed in ovarian carcinomas". Gene. 238 (2): 375 – 85.

4. "Entrez Gene: WFDC2 WAP four-disulfide core domain 2"

5. Molina R, Escudero JM, Augé JM, Filella X, Foj L, Torné A, Lejarcegui J, Pahisa J (2011). "HE4 a novel tumour marker for ovarian cancer: Comparison with CA 125 and ROMA algorithm in patients with gynaecological diseases". Tumor Biology. 32 (6): 1087 – 95.