

Product Manual

Human Epididymis Protein 4, HE4 Protein (Active)

Catalog# MBS355616

Lot # Check on the product label

Size 0.1 mg (4 mg/ml)

Description

Recombinant full length human HE4 protein with molecular weight 14 kDa.

Synonyms Human epididymis protein 4, HE4, WAP four-disulfide core domain protein 2, WFDC2

Source E. Coli

Purity >95% by SDS-PAGE

Formulation Liquid

Concentration 1 mg/ml

Application

ELISA

SDS-PAGE

Other applications have not been tested.

The optimal dilutions should be determined by end user.

Storage buffer

Each vial contains Tris-HCL (pH7.4 ± 0.2) with 0.2% sodium azide.

Storage & Expiration

Ship at 4°C. Upon receipt, aliquot and store at -20°C or -80°C for long term.

Avoid repeated freeze and thaw cycles.

Background

WAP four-disulfide core domain protein 2, also known as Human Epididymis Protein 4 (HE4) is a protein that in humans is encoded by the WFDC2 gene. This gene is amplified in ovarian carcinomas, whereas its expression in normal tissues, including ovary, is low. Although the function of the HE4 protein is unknown, it

is a member of a family of stable 4-disulfide core proteins that are secreted at high levels. HE4 is a secreted glycoprotein that is overexpressed by serous and endometrioid EOCs (epithelial ovarian carcinomas). Its expression in cortical inclusion cysts suggests that formation of Mullerian epithelium is a prerequisite step in the development of some types of EOCs.

Reference

1. Hellström, Ingegerd; John Raycraft, Martha Hayden-Ledbetter, Jeffrey A. Ledbetter, Michèl Schummer, Martin McIntosh, Charles Drescher, Nicole Urban, and Karl Erik Hellström (2003-07-01). "The HE4 (WFDC2) Protein Is a Biomarker for Ovarian Carcinoma". *Cancer Research* 63 (13): 3695–3700.
2. Drapkin R, von Horsten HH, Lin Y et al. (2005). "Human epididymis protein 4 (HE4) is a secreted glycoprotein that is overexpressed by serous and endometrioid ovarian carcinomas". *Cancer Res.* 65 (6): 2162–9.