

Human Epithelial cell adhesion molecule (EPCAM) ELISA Kit

Catalog No: #EK11614

Orders: order@signalwayantibody.com

Package Size: #EK11614-1 48T #EK11614-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Epithelial cell adhesion molecule (EPCAM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CO-17A; CO17-1A; EGP; EGP-2; EGP34; EGP40; ESA; Ep-CAM; GA733-2; KS1/4; KSA; M4S1; MIC18; MK-1; TACST-1; TACSTD1; TROP1; hEGP-2; adenocarcinoma-associated antigen carcinoma-associated antigen GA733-
Accession No.	Q3T0L5
Uniprot	Q3T0L5
GeneID	514039;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:12.6 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate EPCAM in samples. An antibody specific for EPCAM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyEPCAM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for EPCAM is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of EPCAM bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The epithelial cell adhesion molecule (EpCAM, CD326) is a glycoprotein of ~40 kd that was originally identified as a marker for carcinoma, attributable to its high expression on rapidly proliferating tumors of epithelial origin. Normal epithelia express EpCAM at a variable but generally lower level than carcinoma cells. In early studies, EpCAM was proposed to be a cell-cell adhesion molecule.However, recent insights revealed a more versatile role for EpCAM that is not limited only to cell adhesion but includes diverse processes such as signaling, cell migration, proliferation, and differentiation. Cell surface expression of EpCAM may actually prevent cell-cell adhesion.

Note: This product is for in vitro research use only