

# Human CellExp™ EpCAM/CD326, human recombinant

**CATALOG #:** 7450-10 10 µg  
7450-50 50 µg

**ALTERNATE NAMES:** EPCAM, DIAR5, DIAR-5, EGP-2, EGP2, EGP314, EGP-314, EGP40, EGP-40, ESA, GA733-2, HNPCC8, HNPCC-8, KS1/4, KSA, M4S1, MIC18, MIC-18, MK-1, MK1, TACSTD1, TACSTD-1, TROP1, TROP-1, CD326, CD-326, Epithelial cell adhesion molecule, tumor-associated calcium signal transducer 1, cluster of differentiation 326.

**SOURCE:** HEK 293 cells (Gln 24 – Lys 265)

**PURITY:** ≥ 95% by SDS-PAGE gel

**MOL. WEIGHT:** This protein contains a poly histidine tag at C-terminus and has a calculated MW of 29 kDa after removal of signal peptide. The predicted N-terminus is Gln24. In DTT-reduced SDS-PAGE, rh EpCAM protein migrates as 33-36 kDa poly peptide due to glycosylation.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

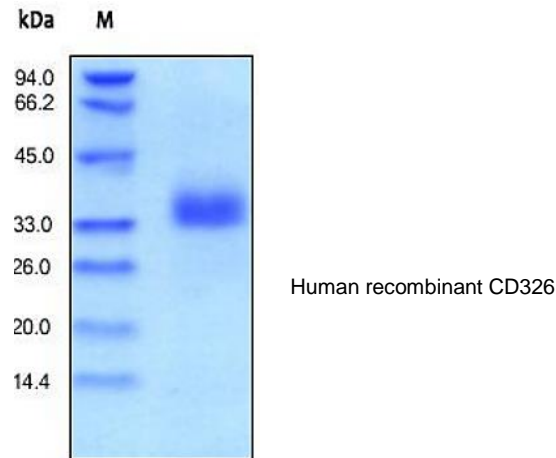
**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**DESCRIPTION:** EpCAM is also known as CO171A,; EGP; EGP40; GA7332; KSA; M4S; MIC18; MK1; TROP1; hEGP2, and is a pan-epithelial differentiation antigen that is expressed on almost all carcinomas as 17-1A(mAb) antigen. Its constitutional function is being elucidated. It is intricately linked with the Cadherin-Catenin pathway and hence the fundamental WNT pathway responsible for intracellular signaling and polarity. The epithelial cell adhesion molecule (Ep-CAM) is known to express in most epithelial

malignancies and was reported as a tumor marker or a candidate of molecular targeting therapy. Ep-CAM cross signaling with N-cadherin involves PI3K, resulting in the abrogation of the cadherin adhesion complexes in epithelial cells was reported. And epithelial cell adhesion molecule (Ep-CAM) recently received increased attention as a prognostic factor in breast cancer.

**BIOLOGICAL ACTIVITY:** Measured by its binding ability in a functional ELISA. Immobilized recombinant human Cathepsin V at 10 µg/mL (100 µl/well) can bind biotinylated EpCAM. The EC<sub>50</sub> of biotinylated EpCAM is 50-70 ng/mL.



**RELATED PRODUCTS:**

- Human CellExp™ CD223, human recombinant (Cat. No. 7278-10, -50)
- Human CellExp™ CD71, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp™ CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD33, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)
- Human CellExp™ CD360, human recombinant (Cat. No. 7373-20, -100)
- Human CellExp™ CD244, human recombinant (Cat. No. 7374-10, -50)
- Human CellExp™ CD304, human recombinant (Cat. No. 7375-10)
- Human CellExp™ CD319, human recombinant (Cat. No. 7376-10, -50)
- Human CellExp™ CD306, human recombinant (Cat. No. 7377-10, -50)
- Human CellExp™ CD84, human recombinant (Cat. No. 7378-10, -50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**