

## Recombinant Rat Epcam Protein, C-His-tagged

## **Product Information**

Cat IMP-4436

Official Symbol Epcam

Product Overview Recombinant rat EPCAM (O55159) (Met1-Thr266) was expressed, fused

with a polyhistidine tag at the C-terminus.

**Description** Epithelial Cell Adhesion Molecule (EpCAM), also known as GA733-2

antigen, is a type â...transmembrane glycoprotein composed of an extracellular domain with two EGF-Like repeats and a cystenin-rich region, a transmembrane domain and a cytoplasmic domain. It modulates cell adhesion and proliferation. Its overexpression has been detected in many epithelial tumours and has been associated with high stage, high grade and a worse survival in some tumour types. EpCAM has been shown to function as a calcium-independent homophilic cell adhesion molecule that does not exhibit any obvious relationship to the four known cell adhesion molecule superfamilies. However, recent insights have revealed that EpCAM

participates in not only cell adhesion, but also in proliferation, migration and differentiation of cells. In addition, recent study revealed that EpCAM is the Wnt-beta-catenin signaling target gene and may be used to facilitate prognosis. It has oncogenic potential and is activated by release of its intracellular domain, which can signal into the cell nucleus by engagement

of elements of the wnt pathway.

Expression System HEK293

Species Rat

Tag C-His

Predicted N Terminal Gln 24

Form Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and

0.01% Tween80.

Molecular Mass The recombinant rat EPCAM comprises 254 amino acids and predicts a

molecular mass of 29.2 kDa. The apparent molecular mass of the

recombinant protein is approximately 39 kDa in SDS-PAGE under reducing

conditions due to glycosylation.

Protein length Met1-Thr266

**Endotoxin** < 1.0 EU/μg of the protein as determined by the LAL method

Purity > 97 % as determined by SDS-PAGE

Storage Samples are stable for up to twelve months from date of receipt at -20 to

-80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is



recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

## Reconstitution

SDS-PAGE

