



## ***Biotinylated Anti-human HepaCAM Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF4108

**Lot Number:** ZGM01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human HepaCAM extracellular domain

**Immunogen:** NS0-derived rhHepaCAM extracellular domain

**Ig Type:** sheep IgG

**Application:** Western blot

### ***Background***

Hepatocyte Cell Adhesion Molecule (HepaCAM) is a 416 amino acid type I transmembrane glycoprotein that belongs to the immunoglobulin superfamily. HepaCAM forms cis-homodimers on the cell surface and may be involved in modulating cell-matrix interactions, likely by promoting cell spreading and motility. Human HepaCAM runs as a 48 - 72 kDa protein depending on glycosylation. It contains a 206 amino acid extracellular domain and a 152 amino acid cytoplasmic domain. Over the extracellular region used as immunogen (aa 34 - 242), human HepaCAM is 99% and 98% identical to mouse and canine HepaCAM proteins, respectively.

### ***Preparation***

Produced in sheep immunized with purified, NS0-derived, recombinant human HepaCAM extracellular domain (rhHepaCAM; aa 34 - 242; Accession # NP\_689935). Human HepaCAM specific IgG was purified by human HepaCAM affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in human HepaCAM Western blots.

### ***Application***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human HepaCAM. The detection limit for rhHepaCAM is approximately 5 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**