Human HepaCAM Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4108

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HepaCAM in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human HepaCAM Val34-Tyr242 Accession # Q14CZ8
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

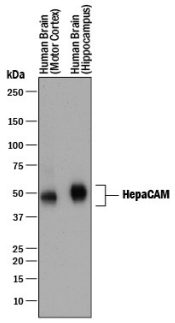
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

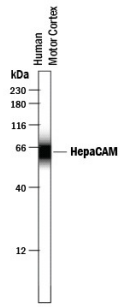
DATA

Western Blot



Detection of Human HepaCAM by Western Blot. Western blot shows lysates of human brain (motor cortex) tissue and human brain (hippocampus) tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human HepaCAM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4108) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for HepaCAM at approximately 45-70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human HepaCAM by Simple Western™. Simple Western lane view shows lysates of human brain (motor cortex) tissue, loaded at 0.2 mg/mL. A specific band was detected for HepaCAM at approximately 63 kDa (as indicated) using 10 µg/mL of Sheep Anti-Human HepaCAM Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4108) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Hepatocyte Cell Adhesion Molecule (HepaCAM) is a 416 amino acid type I transmembrane glycoprotein that belongs to the immunoglobin 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.

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