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HEPACAM Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58328

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q14CZ8
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46026
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HEPACAM
Epitope Specificity	101-200/416
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Membrane; Single-pass type I membrane protein; Cytoplasmic side. Note=In MCF7 breast carcinoma and hepatic Hep3B and HepG2 cell lines, localization of HEPACAM is cell density-dependent. In well spread cells, localized to punctate structures in the perinuclear membrane, cytoplasm, and at cell surface of protusions. In confluent cells, localized predominantly to the cytoplasmic membrane, particularly in areas of cell-cell contacts. Colocalizes with CDH1.
SIMILARITY	Contains 1 Ig-like C2-type (immunoglobulin-like) domain.Contains 1 Ig-like V-type (immunoglobulin-like) domain.
SUBUNIT	Homodimer. Dimer formation occurs predominantly through cis interactions on the cell surface.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Involved in regulating cell motility and cell-matrix interactions. May inhibit cell growth through suppression of cell proliferation.

Additional Information

Gene ID	220296
Other Names	Hepatocyte cell adhesion molecule, Protein hepaCAM, HEPACAM {ECO:0000312|EMBL:AAI13563.1}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

HEPACAM {ECO:0000303|PubMed:15885354, ECO:0000312|HGNC:HGNC:26361}

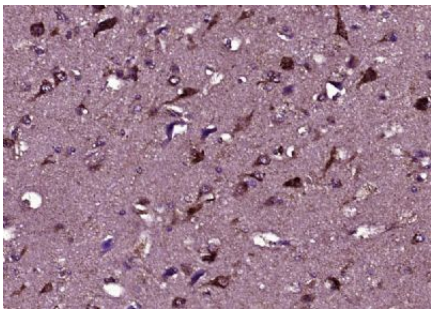
Function

Involved in regulating cell motility and cell-matrix interactions. May inhibit cell growth through suppression of cell proliferation (PubMed:15885354, PubMed:15917256). In glia, associates and targets CLCN2 at astrocytic processes and myelinated fiber tracts where it may regulate transcellular chloride flux involved in neuron excitability (PubMed:22405205).

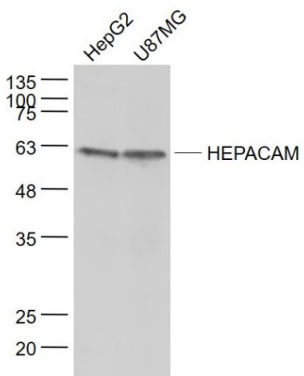
Cellular Location

Cytoplasm. Cell membrane; Single-pass type I membrane protein; Cytoplasmic side. Note=Colocalizes with CLCN2 at astrocyte end-foot in contact with brain capillaries and other glial cells (By similarity). In MCF-7 breast carcinoma and hepatic Hep 3B2.1-7 and Hep- G2 cell lines, localization of HEPACAM is cell density-dependent. In well spread cells, localized to punctate structures in the perinuclear membrane, cytoplasm, and at cell surface of protusions. In confluent cells, localized predominantly to the cytoplasmic membrane, particularly in areas of cell-cell contacts. Colocalizes with CDH1 {ECO:0000250|UniProtKB:Q640R3}

Images



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HEPACAM) Polyclonal Antibody, Unconjugated (AP58328) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Sample:
HepG2(Human) Cell Lysate at 30 ug
U87MG(Human) Cell Lysate at 30 ug
Primary: Anti- HEPACAM (AP58328) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kD
Observed band size: 62 kD