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Anti-CD144 (pY731) Antibody

Rabbit polyclonal antibody to CD144 (pY731)
Catalog # AP60869

Specification

Anti-CD144 (pY731) Antibody - Product Information

Application	**WB**
Primary Accession	P33151
Other Accession	P55284
Reactivity	**Human, Mouse, Chicken, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**87528**

Anti-CD144 (pY731) Antibody - Additional Information

Gene ID 1003

Other Names
Cadherin-5; 7B4 antigen; Vascular endothelial cadherin; VE-cadherin; CD144

Target/Specificity
Recognizes endogenous levels of CD144 (pY731) protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-CD144 (pY731) Antibody - Protein Information

Name CDH5 (HGNC:1764)

Function
Cadherins are calcium-dependent cell adhesion proteins (By similarity). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types (PubMed:21269602). This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions (By similarity). It associates with alpha-catenin forming a link to the cytoskeleton (PubMed:10861224). Plays a role in coupling actin fibers to cell junctions in endothelial cells, via acting as a cell junctional complex anchor for AMOTL2 and MAGI1 (By

similarity). Acts in concert with KRIT1 and PALS1 to establish and maintain correct endothelial cell polarity and vascular lumen (By similarity). These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B (PubMed:20332120). Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction (PubMed:20332120).

Cellular Location
Cell junction, adherens junction. Cell membrane; Single-pass type I membrane protein Cytoplasm {ECO:0000250|UniProtKB:P55284}. Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions.

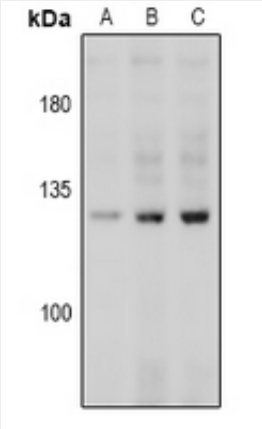
Tissue Location
Endothelial tissues and brain.

Anti-CD144 (pY731) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD144 (pY731) Antibody - Images



Western blot analysis of CD144 (pY731) expression in Hela Starved 4h (A), Hela Starved 16h (B), Hela Starved 24h (C) whole cell lysates.

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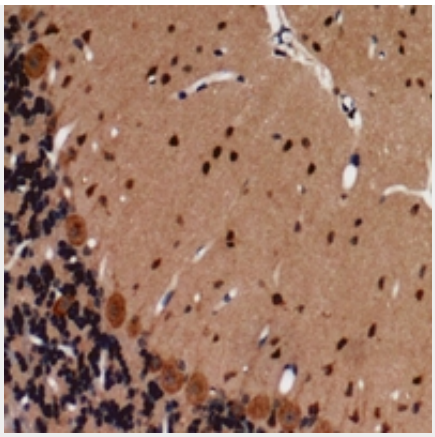

Immunohistochemical analysis of CD144 (pY731) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-CD144 (pY731) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CD144. The exact sequence is proprietary.