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KIAA1199 Rabbit pAb

Catalog # AP99748

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WUJ3
Other Accession	Q8WUJ3
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Zebrafish, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	152998
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KIAA1199
Epitope Specificity	741-840/1361
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the TMEM2 family. Contains 1 G8 domain. Contains 4 PbH1 repeats.
SUBUNIT	Interacts with EPHA2 and ITPR3. Interacts with HSPA5/BIP; the interaction induces calcium leakage from the endoplasmic reticulum and cell migration. Interacts with clathrin heavy chain/CLTC.
Post-translational modifications	N-glycosylated; glycosylation is not necessary for HA-binding.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TMEM2L belongs to the TMEM2 family and contains 4 PbH1 repeats. It is expressed in the inner ear. It is expressed in cochlea and vestibule tissues and it may be involved in hearing. Defects in KIAA1199 may be a cause of non-syndromic hearing loss. It is also thought that KIAA1199 is a tumor suppressor that may be involved in establishing cellular mortality in normal human cells.

Additional Information

Gene ID	57214
Other Names	CCSP1; CEMIP1; HYBID; KIAA1199; TMEM2L; CEMIP_HUMAN; CEMIP; Hyaluronan binding protein involved in hyaluronan depolymerization; 3.2.1.35; CEMIP_MOUSE; Protein 12H19.01.T7; cell migration inducing hyaluronidase 1; cell migration inducing protein, hyaluronan binding; cell migration inducing hyaluronan binding protein; hyaluronan-binding protein involved in hyaluronan depolymerization
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

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	CEMIP (HGNC:29213)
Function	Mediates depolymerization of hyaluronic acid (HA) via the cell membrane-associated clathrin-coated pit endocytic pathway. Binds to hyaluronic acid. Hydrolyzes high molecular weight hyaluronic acid to produce an intermediate-sized product, a process that may occur through rapid vesicle endocytosis and recycling without intracytoplasmic accumulation or digestion in lysosomes. Involved in hyaluronan catabolism in the dermis of the skin and arthritic synovium. Positively regulates epithelial-mesenchymal transition (EMT), and hence tumor cell growth, invasion and cancer dissemination. In collaboration with HSPA5/BIP, promotes cancer cell migration in a calcium and PKC- dependent manner. May be involved in hearing.
Cellular Location	Nucleus. Cytoplasm. Endoplasmic reticulum. Cell membrane. Membrane, clathrin-coated pit. Secreted. Note=Retained in the endoplasmic reticulum (ER) in a HSPA5/BIP-dependent manner. Colocalized with clathrin heavy chain/CLTC in clathrin-coated vesicles. Strongly detected in the cytoplasm of breast carcinoma cells, whereas poorly detected in adjacent normal epithelial cells, stromal cells, or benign breast tissues. Localized in the nucleus and cytoplasm of colon adenocarcinomas
Tissue Location	Expressed in dermal and in synovial fibroblasts. Strongly expressed in gastric cancers compared with the paired normal tissues. Strongly expressed in both ductal carcinoma and invasive breast cancer cells compared with benign epithelial cells (at protein level). Strongly expressed in brain, placenta, prostate, breast, lung and testis. Expressed in fibroblasts, epithelial cells and cancer cells. In ear, it is specifically expressed in inner ear. Expressed in cochlea and vestibule tissues. Strongly expressed in gastric cancers compared with the paired normal tissues. Strongly expressed in colon adenocarcinomas compared with normal colonic mucosas. Strongly expressed in breast cancer as compared to normal breast tissue

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