

Cingulin Rabbit pAb

Cingulin Rabbit pAb

Catalog # AP55355

Product Information

Application	WB
Primary Accession	Q9P2M7
Reactivity	Human
Predicted	Rat, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	137057
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cingulin
Epitope Specificity	1-100/1197
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	Cell junction > tight junction. Localizes to the apical junction complex composed of tight and adherens junctions.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Diffusion of solutes is prevented across certain barriers by the formation of tight junction seals. Occludin and Cingulin interact with other proteins to direct the formation and regulation of tight junctions. Cingulin, a protein component of the submembrane plaque of tight junctions (TJ), contains globular and coiled-coil domains and interacts in vitro with several TJ and cytoskeletal proteins, including the PDZ protein ZO-1. Cingulin binding has also been shown to inhibit RhoA activation and signaling with increased Cingulin expression in confluent cells, causing downregulation of RhoA by inhibiting GEF-H1/Lfc.

Additional Information

Gene ID	57530
Other Names	Cingulin, CGN (HGNC:17429), KIAA1319
Dilution	WB=1:500-2000
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.

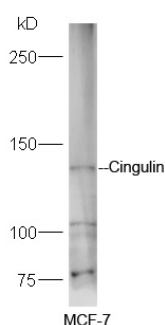
Protein Information

Name	CGN (HGNC:17429)
Synonyms	KIAA1319
Function	Probably plays a role in the formation and regulation of the tight junction (TJ) paracellular permeability barrier.
Cellular Location	Cell junction, tight junction {ECO:0000250 UniProtKB:P59242}. Note=Localizes to the apical junction complex composed of tight and adherens junctions (By similarity) Colocalizes with SPEF1 at sites of cell-cell contact in intestinal epithelial cells (PubMed:12023291). {ECO:0000250 UniProtKB:P59242, ECO:0000269 PubMed:12023291}
Tissue Location	Localized on the cytoplasmic face of tight junctions of polarized epithelia and some endothelia. Expressed in pancreas, kidney, liver and lung, but not in skeletal muscle, placenta, brain or heart

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Sample:
MCF-7 Cell (Human) Lysate at 30 ug
Primary: Anti-Cingulin (AP55355) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 136 kD
Observed band size: 136 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.