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Anti-RECK Picoband Antibody

Catalog # ABO13052

Product Information

Application	WB
Primary Accession	O95980
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for RECK detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8434
Other Names	Reversion-inducing cysteine-rich protein with Kazal motifs, hRECK, Suppressor of tumorigenicity 15 protein, RECK, ST15
Calculated MW	106457
Application Details	Western blot, 0.1-0.5 □g/ml
Subcellular Localization	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Specificity	Expressed in various tissues and untransformed cells. It is undetectable in tumor-derived cell lines and oncogenically transformed cells.
Source	Eukaryota
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Immunogen	A synthetic peptide corresponding to a sequence of human RECK (NAQSDQGAMNDMKLWEKGSIKMPFINIPVLDIKKCQPEMWKAIA).
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C; for one year. After r˚Constitution, at 4˚C; for one month. It˚Can also be aliquotted and stored frozen at -20˚C; for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	RECK {ECO:0000303|PubMed:9789069, ECO:0000312|HGNC:HGNC:11345}
Function	Functions together with ADGRA2 to enable brain endothelial cells to selectively respond to Wnt7 signals (WNT7A or WNT7B) (PubMed:28289266, PubMed:30026314). Plays a key role in Wnt7-specific responses: required for central nervous system (CNS) angiogenesis and blood-brain barrier regulation (By similarity). Acts as a Wnt7-specific coactivator of canonical Wnt signaling by decoding Wnt ligands: acts by interacting specifically with the disordered linker region of Wnt7, thereby conferring ligand selectivity for Wnt7 (PubMed:30026314). ADGRA2 is then required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed:30026314). Also acts as a serine protease inhibitor: negatively regulates matrix metalloproteinase-9 (MMP9) by suppressing MMP9 secretion and by direct inhibition of its enzymatic activity (PubMed:18194466, PubMed:9789069). Also inhibits metalloproteinase activity of MMP2, MMP14 (MT1-MMP) and ADAM10 (PubMed:9789069, PubMed:33731436).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Tissue Location	Expressed in various tissues and untransformed cells (PubMed:9789069). It is undetectable in tumor-derived cell lines and oncogenically transformed cells (PubMed:9789069)

Background

Reversion-inducing-cysteine-rich protein with kazal motifs, also known as RECK, is a human gene, thought to be a metastasis suppressor. The protein encoded by this gene is a cysteine-rich, extracellular protein with protease inhibitor-like domains whose expression is suppressed strongly in many tumors and cells transformed by various kinds of oncogenes. In normal cells, this membrane-anchored glycoprotein may serve as a negative regulator for matrix metalloproteinase-9, a key enzyme involved in tumor invasion and metastasis. Several transcript variants encoding different isoforms have been found for this gene.

Images

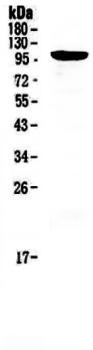


Figure 1. Western blot analysis of RECK using anti-RECK antibody (ABO13052).

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