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RECK Rabbit pAb

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Catalog # AP52056

Product Information

Application	WB
Primary Accession	O95980
Reactivity	Human, Mouse
Predicted	Rat, Pig, Dog, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106457
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RECK
Epitope Specificity	801-900/971
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 membrane; Lipid-anchor, GPI-anchor.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RECK 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.

Additional Information

Gene ID	8434
Other Names	Reversion-inducing cysteine-rich protein with Kazal motifs, hRECK, Suppressor of tumorigenicity 15 protein {ECO:0000312|EMBL:BAA34060.1}, RECK {ECO:0000303|PubMed:9789069, ECO:0000312|HGNC:HGNC:11345}
Dilution	WB=1:500-2000,ELISA=1:5000-10000
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	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

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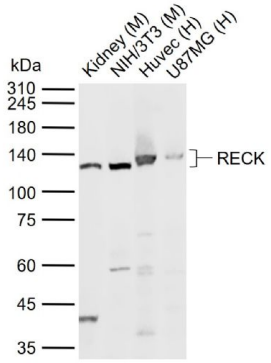
References

Takahashi C.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:13221-13226(1998).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Sample:
Lane 1: Mouse Kidney tissue lysates
Lane 2: Mouse NIH/3T3 cell lysates
Lane 3: Human Huvec cell lysates
Lane 4: Human U87MG cell lysates
Primary: Anti-RECK (AP52056) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 107 kDa
Observed band size: 120 kDa