

RECK Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9259c**Specification**

RECK Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O95980](#)**RECK Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8434**Other Names**

Reversion-inducing cysteine-rich protein with Kazal motifs, hRECK, Suppressor of tumorigenicity 15 protein, RECK, ST15

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9259c](/products/AP9259c) was selected from the Center region of human RECK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RECK Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/28289266) target="_blank">28289266, PubMed: [30026314](http://www.uniprot.org/citations/30026314) target="_blank">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](http://www.uniprot.org/citations/30026314) target="_blank">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](http://www.uniprot.org/citations/30026314) target="_blank">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:9789069, PubMed:18194466). Also inhibits metalloproteinase activity of MMP2 and MMP14 (MT1-MMP) (PubMed:9789069).

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)

RECK Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RECK Antibody (Center) Blocking Peptide - Images**RECK Antibody (Center) Blocking Peptide - Background**

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.

RECK Antibody (Center) Blocking Peptide - References

Du,Y.Y., et.al, World J. Gastroenterol. 16 (7), 904-908 (2010)Pesta,M., et.al, Anticancer Res. 29 (11), 4535-4539 (2009)Takahashi,C., et.al, Tanpakushitsu Kakusan Koso 54 (13), 1742-1746 (2009)