

**Anti-RECK Picoband Antibody**  
Catalog # ABO13052**Specification****Anti-RECK Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O95980</a>
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.

**Anti-RECK Picoband Antibody - Additional Information**

Gene ID 8434

**Other Names**

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

**Application Details**

Western blot, 0.1-0.5 µg/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.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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.**

## Anti-RECK Picoband Antibody - 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: <a href="http://www.uniprot.org/citations/28289266" target="\_blank">28289266</a>, PubMed: <a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). 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: <a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). ADGRA2 is then required to deliver RECK-bound Wnt7 to frizzled by assembling a higher-order RECK-ADGRA2-Fzd-LRP5-LRP6 complex (PubMed: <a href="http://www.uniprot.org/citations/30026314" target="\_blank">30026314</a>). 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: <a href="http://www.uniprot.org/citations/18194466" target="\_blank">18194466</a>, PubMed: <a href="http://www.uniprot.org/citations/9789069" target="\_blank">9789069</a>). Also inhibits metalloproteinase activity of MMP2 and MMP14 (MT1-MMP) (PubMed: <a href="http://www.uniprot.org/citations/9789069" target="\_blank">9789069</a>).

### Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

### Tissue Location

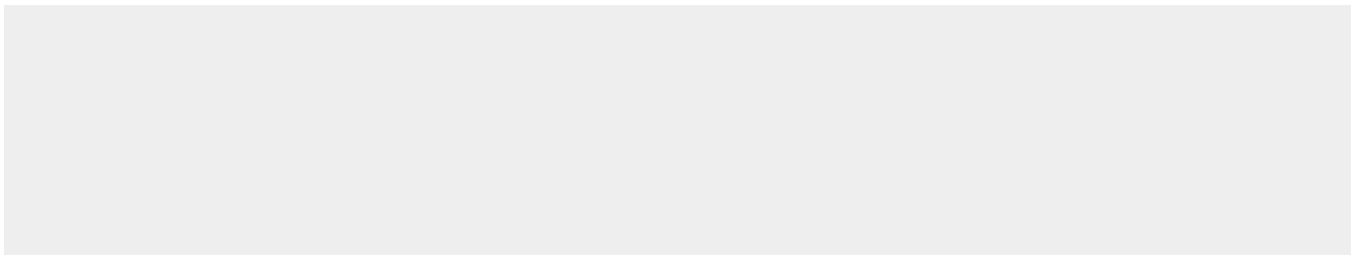
Expressed in various tissues and untransformed cells (PubMed:9789069). It is undetectable in tumor-derived cell lines and oncogenically transformed cells (PubMed:9789069)

## Anti-RECK Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-RECK Picoband Antibody - Images



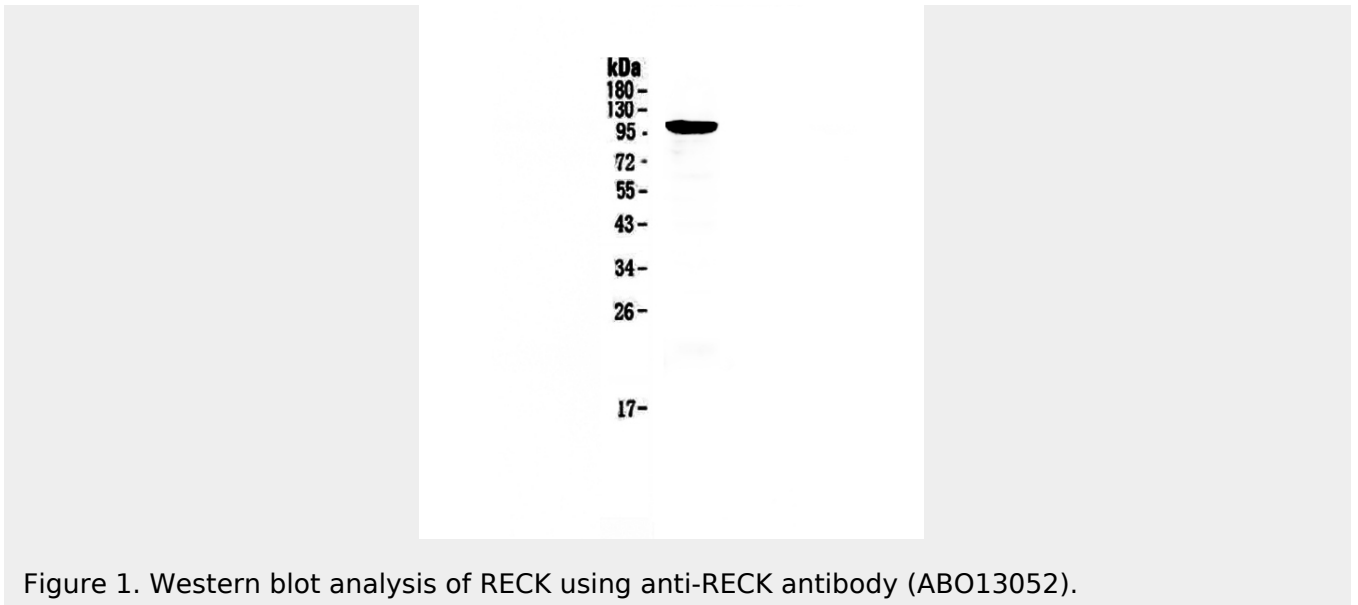


Figure 1. Western blot analysis of RECK using anti-RECK antibody (ABO13052).

### **Anti-RECK Picoband Antibody - 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.