

**Kremen Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1527b****Specification**

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**Kremen Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [O96MU8](#)  
Other Accession [NP\\_114434](#)

**Kremen Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 83999

**Other Names**

Kremen protein 1, Dickkopf receptor, Kringle domain-containing transmembrane protein 1, Kringle-containing protein marking the eye and the nose, KREMEN1, KREMEN, KRM1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1527b](/product/products/AP1527b) was selected from the C-term region of human Kremen. 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.

**Kremen Antibody (C-term) Blocking Peptide - Protein Information**

**Name** KREMEN1

**Synonyms** KREMEN, KRM1

**Function**

Receptor for Dickkopf proteins. Cooperates with DKK1/2 to inhibit Wnt/beta-catenin signaling by promoting the endocytosis of Wnt receptors LRP5 and LRP6. In the absence of DKK1, potentiates Wnt-beta- catenin signaling by maintaining LRP5 or LRP6 at the cell membrane. Can trigger apoptosis in a Wnt-independent manner and this apoptotic activity is inhibited upon binding of the ligand DKK1. Plays a role in limb development; attenuates Wnt signaling in the developing limb to allow normal limb patterning and can also negatively regulate bone formation. Modulates cell fate decisions in the developing cochlea with an inhibitory role in hair cell fate specification.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:Q99N43}; Single-pass type I membrane protein

**Kremen Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Kremen Antibody (C-term) Blocking Peptide - Images****Kremen Antibody (C-term) Blocking Peptide - Background**

Kremen is a high-affinity dickkopf homolog 1 (DKK1) transmembrane receptor that functionally cooperates with DKK1 to block wingless (WNT)/beta-catenin signaling. This protein is a component of a membrane complex that modulates canonical WNT signaling through lipoprotein receptor-related protein 6 (LRP6). It contains extracellular kringle, WSC, and CUB domains.

**Kremen Antibody (C-term) Blocking Peptide - References**

Mao, B., et al., Nature 417(6889):664-667 (2002). Nakamura, T., et al., Biochim. Biophys. Acta 1518 (1-2), 63-72 (2001).