

Kremen Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1527a**Specification**

Kremen Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O96MU8
Other Accession	NP_114434
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51744
Antigen Region	6-37

Kremen Antibody (N-term) - 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

This Kremen antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-37 amino acids from the N-terminal region of human Kremen.

Dilution

WB~~1:1000

IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Kremen Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Kremen Antibody (N-term) - 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.

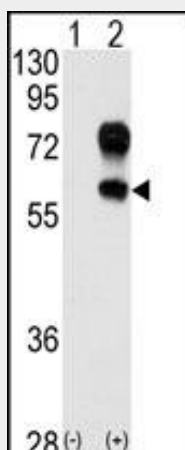
Cellular Location

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

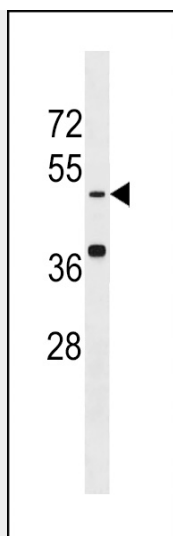
Kremen Antibody (N-term) - Protocols

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

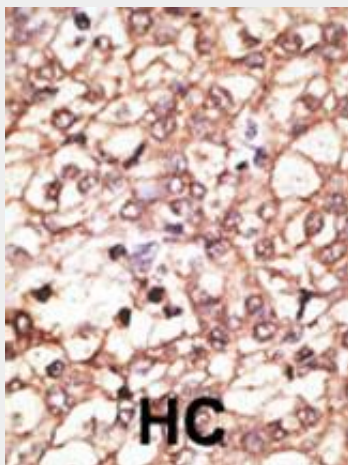
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Kremen Antibody (N-term) - Images

Western blot analysis of Kremen (arrow) using Kremen Antibody (N-term) (Cat.#AP1527a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the Kremen gene (Lane 2) (Origene Technologies).



Kremen (DKK5) Antibody (R21) (Cat. #AP1527a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the Kremen (DKK5) antibody detected the Kremen (DKK5) protein (arrow).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Kremen Antibody (N-term) - Background

Kremen is a high-affinity dickkopf homolog 1 (DKK1) transmembrane receptor that functionally cooperates with DKK1 to block wntless (WNT)/beta-catenin signaling. The encoded 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 (N-term) - References

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