

# KREMEN1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7594a

### **Product Information**

**Application** WB, FC, E **Primary Accession** Q96MU8

Other Accession <u>Q90Y90</u>, <u>Q924S4</u>, <u>Q99N43</u>

Reactivity Human

**Predicted** Mouse, Rat, Xenopus

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB10586
Calculated MW 51744
Antigen Region 53-82

## **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 KREMEN1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 53-82 amino acids from the N-terminal

region of human KREMEN1.

**Dilution** WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.

**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** KREMEN1 Antibody (N-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

## **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

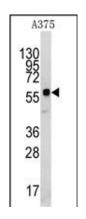
# **Background**

KREMEN1 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.

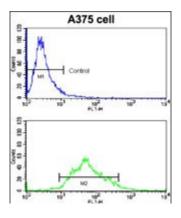
## References

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

# **Images**



Western blot analysis of anti-KREMEN1 Antibody (N-term) (Cat.#AP7594a) in A375 cell line lysates (35ug/lane).KREMEN1(arrow) was detected using the purified Pab.



Flow cytometric analysis of A375 cells using KREMEN1 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.