

**KREMEN2 Antibody**  
**Catalog # ASC11627****Specification**

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**KREMEN2 Antibody - Product Information**

Application	WB, ICC
Primary Accession	<a href="#">Q8NCW0</a>
Other Accession	<a href="#">NP_757384</a> , <a href="#">27437008</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 51 kDa
Application Notes	Observed: 54 kDa KDa KREMEN2 Antibody can be used for detection of KREMEN2 by Western blot starting at 1 µg/mL.

**KREMEN2 Antibody - Additional Information**Gene ID **79412****Target/Specificity**

KREMEN2; Multiple isoforms of KREMEN2 are known to exist. KREMEN2 antibody is predicted to not cross-react with other Kremen protein family members.

**Reconstitution & Storage**

KREMEN2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

KREMEN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**KREMEN2 Antibody - Protein Information****Name** KREMEN2**Synonyms** KRM2**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. 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.

**Cellular Location**

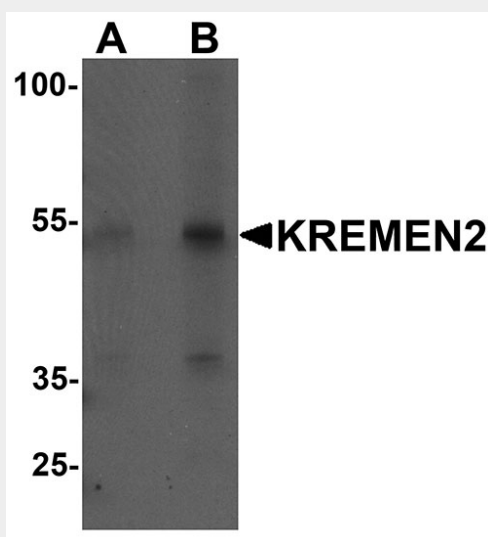
Membrane; Single-pass type I membrane protein

## KREMEN2 Antibody - Protocols

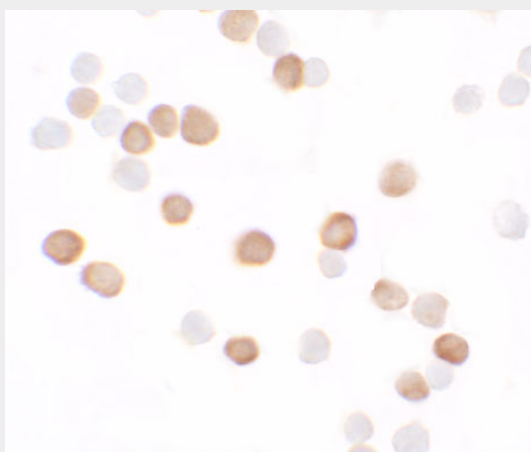
Provided below are standard protocols that you may find useful for product applications.

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

## KREMEN2 Antibody - Images



Western blot analysis of KREMEN2 in HeLa cell lysate with KREMEN2 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunocytochemistry of KREMEN2 in HeLa cells with KREMEN2 antibody at 5  $\mu$ g/mL.

## KREMEN2 Antibody - Background

KREMEN2 Antibody: Kremen (Kringle containing protein marking the eye and the nose) proteins are

type I transmembrane proteins that contain extracellular kringle, WSC and CUB domains and an intracellular region without any conserved motifs. Kremens bind a subset of the secreted Dickkopf proteins (Dkk 1, 2, and 4) with high affinity to modulate the canonical Wnt signaling pathway that is transduced by the ternary receptor complex composed of Wnt, Frizzled, and the LDL receptor related protein 5/6 (LRP5/6) co-receptor. Recent experiments have shown that KREMEN2 is a regulator of bone remodeling and raise the possibility that antagonizing KREMEN2 might prove beneficial in patients with bone loss disorders.

#### **KREMEN2 Antibody - References**

Nakamura T, Aoki S, Kitajima K, et al. Molecular cloning and characterization of Kremen, a novel kringle-containing transmembrane protein. *Biochim. Biophys. Acta.* 2001; 1518:63-72.  
Mao B, Wu W, Davidson G, et al. Kremen proteins are Dickkopf receptors that regulate Wnt/beta-catenin signalling. *Nature* 2002; 417:664-7.  
Li J, Liu WM, Cao YJ, et al. Roles of Dickkopf-1 and its receptor KREMEN1 during embryonic implantation in mice. *Fertil. Steril.* 2008; 90:1470-9.  
Schulze J, Seitz S, Saito H, et al. Negative regulation of bone formation by the transmembrane Wnt antagonist Kremen-2. *PLoS* 2010; 5:e10309.