

# MKRN3 Antibody

Catalog # ASC11911

## Product Information

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>           | WB, IF, E                                                                                                                             |
| <b>Primary Accession</b>     | <a href="#">Q6NSB6</a>                                                                                                                |
| <b>Other Accession</b>       | <a href="#">NP_005655</a> , <a href="#">5032243</a>                                                                                   |
| <b>Reactivity</b>            | Human, Mouse, Rat                                                                                                                     |
| <b>Host</b>                  | Rabbit                                                                                                                                |
| <b>Clonality</b>             | Polyclonal                                                                                                                            |
| <b>Isotype</b>               | IgG                                                                                                                                   |
| <b>Calculated MW</b>         | 55 KDa                                                                                                                                |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                               |
| <b>Conjugate</b>             | Unconjugated                                                                                                                          |
| <b>Application Notes</b>     | MKRN3 antibody can be used for detection of MKRN3 by Western blot at 1 - 2 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 7681                                                                                                                                   |
| <b>Target/Specificity</b>           | MKRN3; MKRN3 antibody is human specific. MKRN3 antibody is predicted to not cross-react with other members of the MKRN protein family. |
| <b>Reconstitution &amp; Storage</b> | MKRN3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.                                             |
| <b>Precautions</b>                  | MKRN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                       |

## Protein Information

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## Background

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The Makorin ring finger 3 (MKRN3) protein contains a RING (C3HC4) zinc finger motif and several C3H zinc finger motifs. The MKRN3 gene is intronless and imprinted, with expression only from the paternal allele. Disruption of the imprinting at this locus may contribute to Prader-Willi syndrome (1), but a deletion of the gene does not (2). A deficiency of MKRN3 has been shown to cause central precocious puberty in humans (3).

## References

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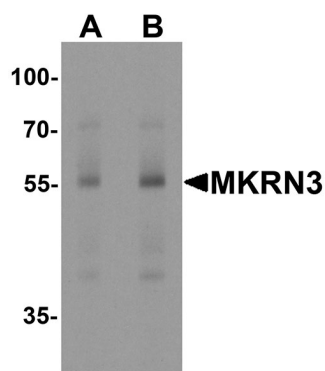
Jong MT, Gray TA, Ji Y, et al. A novel imprinted gene, encoding a RING zinc-finger protein, a overlapping antisense transcript in the Prader-Willi syndrome critical region. Hum. Mol. Genet. 1999; 8:783-93.  
Kamber D, Giltay J, Wiczorek D, et al. A paternal deletion of MKRN3, MAGEL2 and NDN does not result in

Prader-Willi syndrome. Eur. J. Hum. Genet. 2009; 17:582-90.

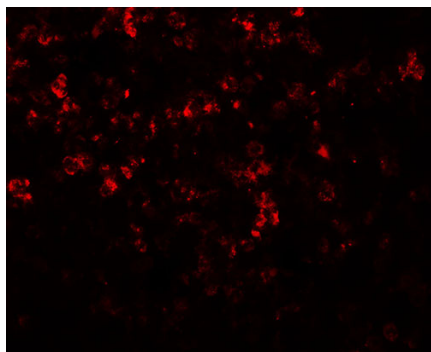
Abreu AP, Dauber A, Macedo DB, et al. Central precocious puberty caused by mutations in the imprinting gene MKRN3. N. Engl. J. Med. 2013; 368:2467-75.

## Images

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Western blot analysis of MKRN3 in human spleen tissue lysate with MKRN3 antibody at (A) 1 and (B) 2  $\mu\text{g/ml}$ .



Immunofluorescence of MKRN3 in human spleen tissue with MKRN3 antibody at 20  $\mu\text{g/mL}$ .

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