

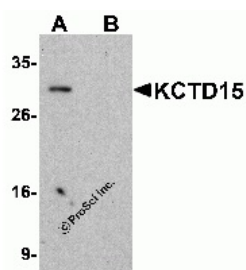
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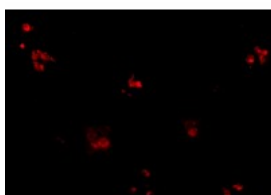
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## KCTD15 Antibody

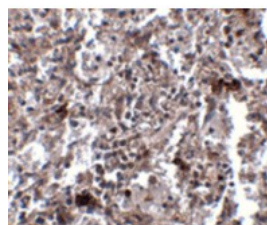
CATALOG NUMBER: 5085



Western blot analysis of KCTD15 in HeLa cell lysate with KCTD15 antibody at 1ug/ml in (A) the absence and (B) the presence of blocking buffer.



Immunofluorescence of KCTD15 in human spleen tissue with KCTD15 antibody at 20 ug/mL.



Immunohistochemistry of KCTD15 in human spleen tissue with KCTD15 antibody at 2.5 ug/mL.

### Specifications

<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat
<b>HOMOLOGY:</b>	Predicted species reactivity based on immunogen sequence: Bovine: (100%)
<b>TESTED APPLICATIONS:</b>	ELISA, IF, IHC-P, WB
<b>APPLICATIONS:</b>	KCTD15 antibody can be used for detection of KCTD15 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1201 - HeLa Cell Lysate 2) Cat. No. 10-901 - Human Spleen Tissue Slide
<b>IMMUNOGEN:</b>	KCTD15 antibody was raised against a 16 amino acid synthetic peptide near the carboxy terminus of human KCTD15.  The immunogen is located within the last 50 amino acids of KCTD15.
<b>HOST SPECIES:</b>	Rabbit

### Properties

<b>PURIFICATION:</b>	KCTD15 Antibody is affinity chromatography purified via peptide column.
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	KCTD15 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	KCTD15 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>CLONALITY:</b>	Polyclonal

<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	KCTD15 Antibody: Potassium channel tetramerization domain-containing protein 15
<b>ACCESSION NO.:</b>	Q96S11
<b>PROTEIN GI NO.:</b>	74732704
<b>OFFICIAL SYMBOL:</b>	KCTD15
<b>GENE ID:</b>	79047

#### Background

**BACKGROUND:** KCTD15 Antibody: Childhood and adult obesity in the United States and to a lesser extent the rest of the world has increased dramatically over the past decade. Both environmental and genetic factors are involved in the onset and progression of weight gain. Recently, the potassium channel KCTD15 was identified as a genetic loci associated with higher than normal body mass index (BMI) in humans along with genes such as GNPDA2, MTCH2, FTO, and TMEM18. Further studies on single nucleotide polymorphisms (SNPs) in non-diabetic and diabetic patients showed that FTO was most strongly associated with obesity while MTCH2 and GNPDA2 were still significantly associated with higher than normal BMI levels. At least two isoforms of KCTD15 are known to exist.

**REFERENCES:**

- 1) Hill JO. Genetic and environmental contributions to obesity. *Am. J. Clin. Nutr.*1998; 68:991-2.
- 2) Willer CJ, Speliotes EK, Loos RJ, et al. Six new loci associated with body mass index highlight a neuronal influence on body weight regulation. *Nat. Genetics*2009; 41:25-34.
- 3) Renstrom F, Payne F, Nordstrom A, et al. Replication and extension of genome-wide association study results for obesity in 4923 adults from northern Sweden. *Human. Mol. Gen.*2009; 18:1489-96.

**FOR RESEARCH USE ONLY**

January 11, 2018