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## **AXIN1 (N) Antibody, Rabbit Polyclonal**

**Cat#: R0830-1**

**Quantity: 100 ul**

**Predicted | Observed MW: 96 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: O15169**

### **Background:**

Axin-1 is a component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling. AXIN1 controls dorsoventral patterning via two opposing effects; down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway. In Wnt signaling, AXIN1 probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B. AXIN1 is likely to function as a tumor suppressor. AXIN1 facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. AXIN1 enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7. AXIN1 is also component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development.

### **Other Names:**

Axin-1, Axis inhibition protein 1, hAxin, AXIN

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human AXIN1. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

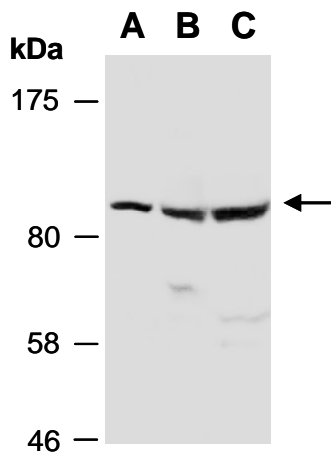
Human, Mouse

### **Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot of total cell extracts from (A) mouse thymus, (B) human HeLa, (C) human Jurkat; using anti-AXIN1 (N) (R0830-1) at RT for 2 h.