



## Rabbit Anti-RNF111 antibody

SL10937R

<b>Product Name:</b>	RNF111
<b>Chinese Name:</b>	Ring finger protein111抗体
<b>Alias:</b>	ARK; Arkadia; DKFZp313E0731; DKFZp686H1966; DKFZp761D081; E3 ubiquitin protein ligase Arkadia; FLJ38008; Ring finger protein 111; RNF 111; RN111_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	109kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human RNF111:851-950/994
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene is a nuclear RING-domain containing E3 ubiquitin ligase. This protein interacts with the transforming growth factor (TGF) -beta/NODAL signaling pathway by promoting the ubiquitination and proteosomal degradation of negative regulators, like SMAD proteins, and thereby enhances TGF-beta target-gene transcription. As a modulator of the nodal signaling cascade, this gene plays a critical

role in the induction of mesoderm during embryonic development. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2012]

**Function:**

Acts in the NODAL pathway of mesoderm patterning during embryonic development. Acts downstream AXIN1 as an E3 ubiquitin-protein ligase which promotes the ubiquitination of inhibitory SMADs such as SMAD7, induces their proteasomal degradation and thereby enhances the transcriptional activity of TGF-beta and BMP. Activates Smad3/Smad4-dependent transcription by triggering signal-induced SnoN degradation.

**Subunit:**

Interacts with SMAD6, SMAD7, AXIN1, AXIN2 and SKIL isoform SNON. Part of a complex containing RNF111, AXIN1 and SMAD7. Interacts (via SIM domains) with SUMO1 and SUMO2.

**Subcellular Location:**

Cytoplasmic and Nuclear

**Tissue Specificity:**

Broadly expressed.

**Similarity:**

Contains 1 RING-type zinc finger.

**SWISS:**

Q6ZNA4

**Gene ID:**

54778

**Database links:**

[Entrez Gene: 54778](#)Human

[Omim: 605840](#)Human

[SwissProt: Q6ZNA4](#)Human

[Unigene: 404423](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

