

Rabbit Anti-RNF111 antibody

SL10937R

Product Name: RNF111 Chinese Name: Ring finger protein111抗体 Alias: ARK; Arkadia; DKFZp313E0731; DKFZp686H1966; DKFZp761D081; E3 ubiquitin protein ligase Arkadia; FLJ38008; Ring finger protein 111; RNF 111; RN111 HUMAN. Organism Species: Rabbit Clonality: Polyclonal React Species: Human,Mouse,Rat,Dog,Cow,Rabbit,Sheep, 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. optimal dilutions/concentrations should be determined by the end user. Molecular weight: 109kDa Cellular localization: The nucleuscytoplasmic Form: Lyophilized or Liquid Concentration: Img/ml immunogen: KLH conjugated synthetic peptide derived from human RNF111:851-950/994 Lsotype: IgG Purification: affinity purified by Protein A Storage 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 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		
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	Product Detail:	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		ligase. This protein interacts with the transforming growth factor (TGF) -beta/NODAL
Product Detail: signaling pathway by promoting the ubiquitination and proteosomal degradation of		signaling pathway by promoting the ubiquitination and proteosomal degradation of
negative regulators, like SMAD proteins, and thereby enhances TGF-beta target-gene		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		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.

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Subcellular Location: Cytoplasmic and Nuclear

Tissue Specificity: Broadly expressed.

Similarity: Contains 1 RING-type zinc finger.

SWISS: O6ZNA4

Gene ID: 54778

Database links:

Entrez Gene: 54778Human

<u>Omim: 605840</u>Human

SwissProt: Q6ZNA4Human

Unigene: 404423Human

Important Note:

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

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