



# Arkadia Monoclonal Antibody

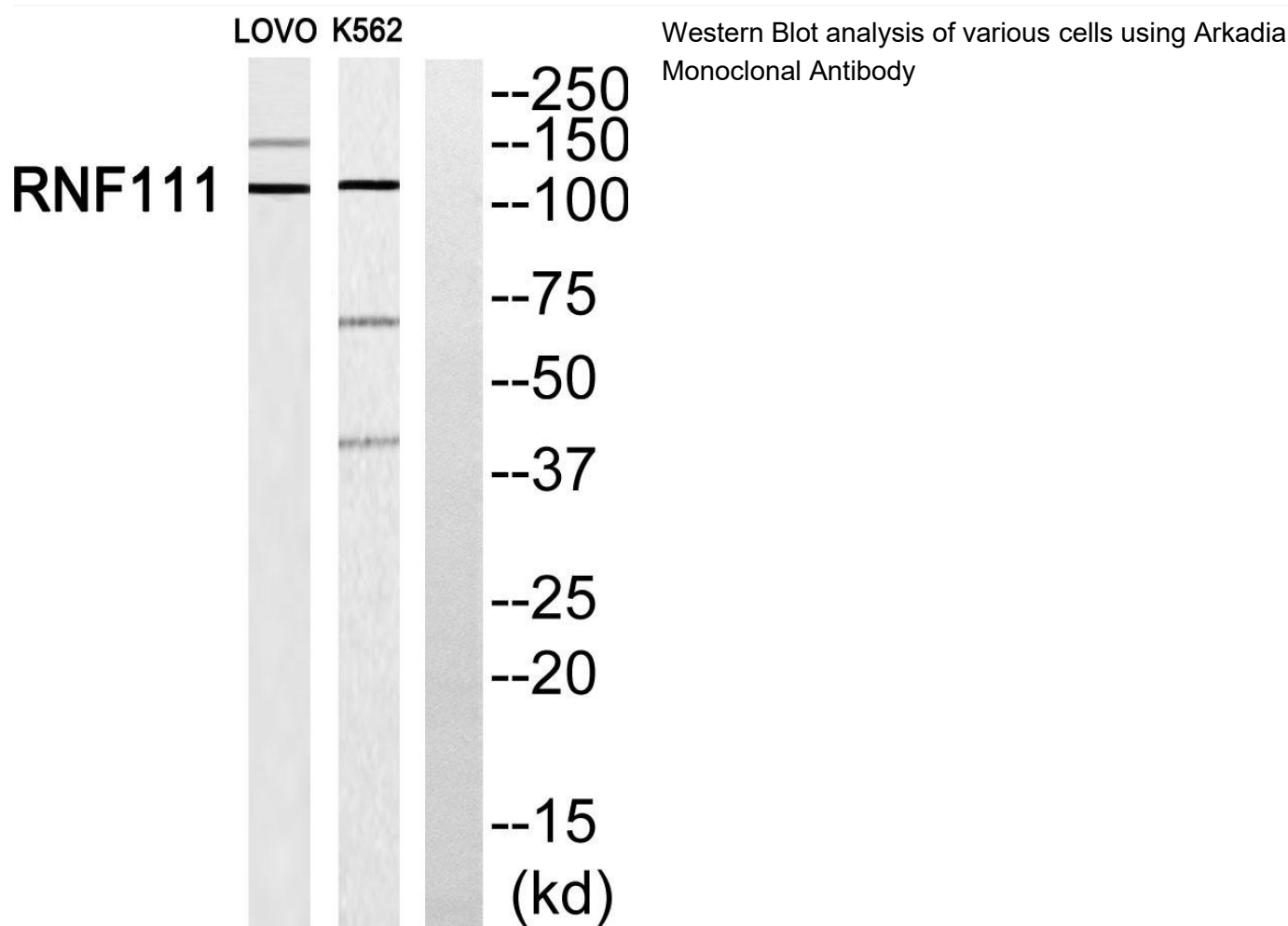
<b>Catalog No</b>	BYmab-03712
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	RNF111
<b>Protein Name</b>	E3 ubiquitin-protein ligase Arkadia
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human RNF111. AA range:901-950
<b>Specificity</b>	Arkadia Monoclonal Antibody detects endogenous levels of Arkadia protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	RNF111; E3 ubiquitin-protein ligase Arkadia; RING finger protein 111
<b>Observed Band</b>	110kD
<b>Cell Pathway</b>	Nucleus . Cytoplasm . Nucleus, PML body . Upon TGF-beta treatment, translocates from nucleus to cytosol. .
<b>Tissue Specificity</b>	Broadly expressed.
<b>Function</b>	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.,pathway:Protein modification; protein ubiquitination.,similarity:Contains 1 RING-type zinc finger.,subcellular location:Upon TGF-beta treatment, translocates from nucleus to cytosol.,subunit:Interacts with SMAD6, SMAD7, AXIN1, AXIN2 and SKIL isoform SNON. Part of a complex containing RNF111, AXIN1 and SMAD7.,tissue specificity:Broadly expressed.,

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<b>Background</b>	ring finger protein 111(RNF111) Homo sapiens 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],
<b>matters needing attention</b>	Avoid repeated freezing and thawing!
<b>Usage suggestions</b>	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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