

## Angiotensin 1 Rabbit mAb

Catalog No: #52015

Package Size: #52015-1 50ul #52015-2 100ul

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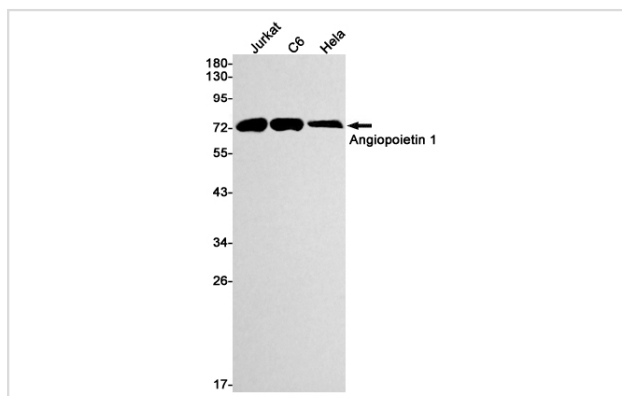
## Description

Product Name	Angiotensin 1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S06-1F9
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Rat
Immunogen Description	A synthetic peptide of human Angiotensin 1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	ANGPT1; KIAA0003; Angiotensin-1; ANG-1
Accession No.	Swiss-Prot:Q15389GeneID:284
Uniprot	Q15389
GeneID	284
Calculated MW	Calculated MW: 58 kDa; Observed MW: 75 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Application Details

WB: 1/2000-1/10000

## Images



Western blot detection of Angiotensin 1 in Jurkat,C6,HeLa cell lysates using Angiotensin 1 Rabbit mAb(1:1000 diluted).Predicted band size:58kDa.Observed band size:75kDa.

## Background

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Swiss-Prot Acc.Q15389. Binds and activates TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation. Plays an important role in the regulation of angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Required for normal angiogenesis and heart development during embryogenesis. After birth, activates or inhibits angiogenesis, depending on the context. Inhibits angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have tight contacts. In quiescent vessels, ANGPT1 oligomers recruit TEK to cell-cell contacts, forming complexes with TEK molecules from adjoining cells, and this leads to preferential activation of phosphatidylinositol 3-kinase and the AKT1 signaling cascades. In migrating endothelial cells that lack cell-cell adhesions, ANG1 recruits TEK to contacts with the extracellular matrix, leading to the formation of focal adhesion complexes, activation of PTK2/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1, and ultimately to the stimulation of sprouting angiogenesis. Mediates blood vessel maturation/stability. Implicated in endothelial developmental processes later and distinct from that of VEGF. Appears to play a crucial role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme.

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Note: This product is for in vitro research use only