

## Anti-LIMK1 antibody

<b>Cat. No.</b>	ml161858
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-LIMK1 rabbit polyclonal antibody
<b>Applications</b>	ELISA, IHC
<b>Immunogen</b>	Synthetic peptide of human LIMK1
<b>Reactivity</b>	Human, Mouse, Rat
<b>Content</b>	0.9 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	LIMK1
<b>Full name</b>	LIM domain kinase 1
<b>Synonyms</b>	LIMK; LIMK-1
<b>Swissprot</b>	P53667

### Target Background

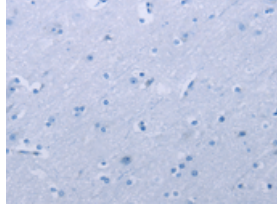
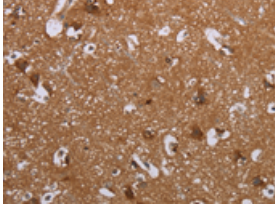
There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure.

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### Applications

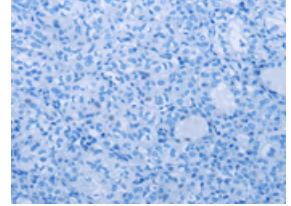
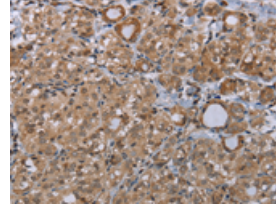
#### Immunohistochemistry

Predicted cell location: Cytoplasm  
Positive control: Human brain  
Recommended dilution: 50-200



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using ml161858(LIMK1 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)

Predicted cell location: Cytoplasm  
Positive control: Human thyroid cancer  
Recommended dilution: 50-200



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml161858(LIMK1 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)

#### ELISA

Recommended dilution: 2000-5000

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