

## Product datasheet for **TA351352**

### LIM Kinase 1 (LIMK1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human brain Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human LIMK1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	LIM domain kinase 1
Database Link:	<a href="#">NP_002305</a> <a href="#">Entrez Gene 16885 Mouse</a> <a href="#">Entrez Gene 65172 Rat</a> <a href="#">Entrez Gene 3984 Human</a> <a href="#">P53667</a>



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**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.

**Synonyms:**

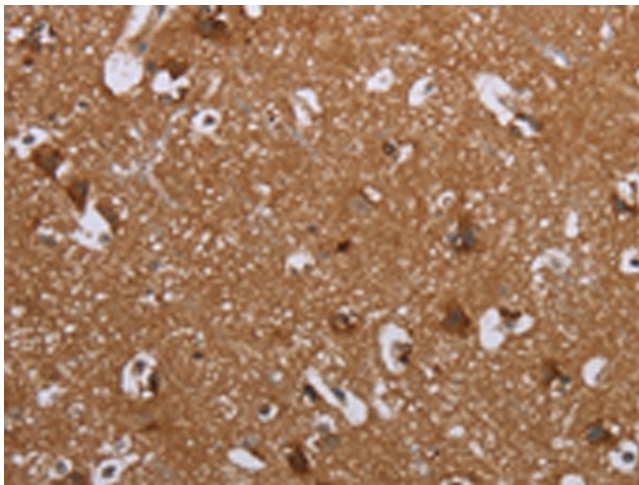
LIMK; LIMK-1

**Protein Families:**

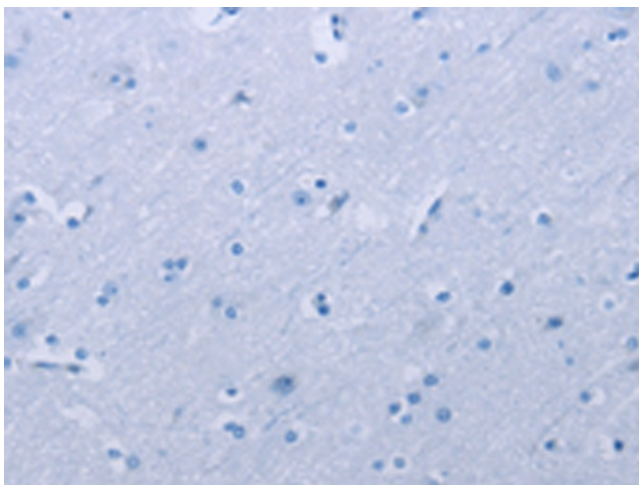
Druggable Genome, Protein Kinase

**Protein Pathways:**

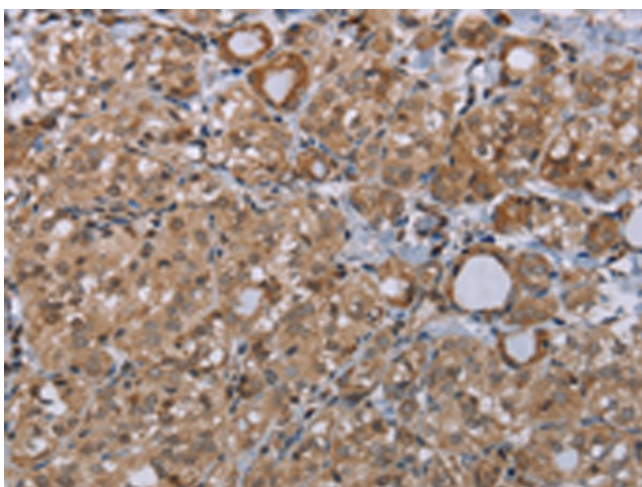
Axon guidance, Fc gamma R-mediated phagocytosis, Regulation of actin cytoskeleton

**Product images:**

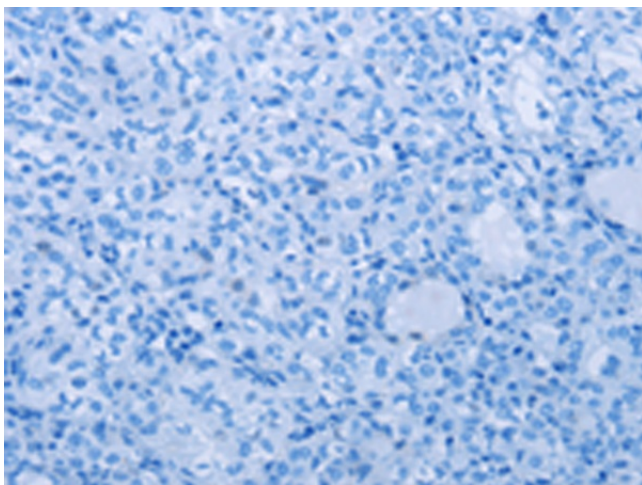
Immunohistochemistry of paraffin-embedded Human brain tissue using TA351352 (LIMK1 Antibody) at dilution 1/40 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA351352 (LIMK1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351352 (LIMK1 Antibody) at dilution 1/40 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351352 (LIMK1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification:  $\times 200$ )