

**Mouse Abl2 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP21528b****Specification****Mouse Abl2 Blocking Peptide (C-term) - Product Information**Primary Accession [Q4JIM5](#)**Mouse Abl2 Blocking Peptide (C-term) - Additional Information****Other Names**

Abelson tyrosine-protein kinase 2, Abelson murine leukemia viral oncogene homolog 2, Abelson-related gene protein, Tyrosine-protein kinase ARG, Abl2 {ECO:0000312|EMBL:AAAY860391, ECO:0000312|MGI:MGI:87860}

**Target/Specificity**

The synthetic peptide sequence is selected from aa 1011-1024 of HUMAN Abl2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Abl2 Blocking Peptide (C-term) - Protein Information****Name** Abl2

{ECO:0000312|EMBL:AAAY86039.1, ECO:0000312|MGI:MGI:87860}

**Function**

Non-receptor tyrosine-protein kinase that plays an ABL1- overlapping role in key

**Mouse Abl2 Blocking Peptide (C-term) - Background**

Non-receptor tyrosine-protein kinase that plays an ABL1- overlapping role in key processes linked to cell growth and survival such as cytoskeleton remodeling in response to extracellular stimuli, cell motility and adhesion, receptor endocytosis, autophagy, DNA damage response and apoptosis. Coordinates actin remodeling through tyrosine phosphorylation of proteins controlling cytoskeleton dynamics like MYH10 (involved in movement); CTTN (involved in signaling); or TUBA1 and TUBB (microtubule subunits). Binds directly F-actin and regulates actin cytoskeletal structure through its F-actin-bundling activity. Involved in the regulation of cell adhesion and motility through phosphorylation of key regulators of these processes such as CRK, CRKL or DOK1. Required for adhesion-dependent phosphorylation of ARHGAP35 which promotes its association with RASA1, resulting in recruitment of ARHGAP35 to the cell periphery where it inhibits RHO. Phosphorylates multiple receptor tyrosine kinases like PDGFRB and other substrates which are involved in endocytosis regulation such as RIN1. In brain, may regulate neurotransmission by phosphorylating proteins at the synapse. Finally, functions as its own regulator through autocatalytic activity as well as through phosphorylation of its inhibitor, ABL1.

**Mouse Abl2 Blocking Peptide (C-term) - References**

Wang Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:14865-14870(2001).  
Tanis K.Q.,et al.Mol. Cell. Biol. 23:3884-3896(2003).  
Koleske A.J.,et al.Neuron 21:1259-1272(1998).  
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**Cellular Location**

Cytoplasm, cytoskeleton

**Tissue Location**

Most abundant in adult mouse brain, especially in synapse-rich regions.

**Mouse Abl2 Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)