

**9030625A04Rik antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI13514****Specification**

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**9030625A04Rik antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">Q8BZT9</a>
Other Accession	<a href="#">NM_172488</a> , <a href="#">NP_766076</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47kDa KDa

**9030625A04Rik antibody - C-terminal region - Additional Information****Gene ID** 210808

Alias Symbol	<b>Lacc1, 9030625A04Rik</b>
<b>Other Names</b>	
Laccase domain-containing protein 1, Lacc1	

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-9030625A04Rik antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

9030625A04Rik antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**9030625A04Rik antibody - C-terminal region - Protein Information****Name** Lacc1 {ECO:0000312|MGI:MGI:2445077}**Function**

Purine nucleoside enzyme that catalyzes the phosphorolysis of adenosine, guanosine and inosine nucleosides, yielding D-ribose 1- phosphate and the respective free bases, adenine, guanine and hypoxanthine (By similarity). Also catalyzes the phosphorolysis of S- methyl-5'-thioadenosine into adenine and S-methyl-5-thio-alpha-D-ribose 1-phosphate (By similarity). Also has adenosine deaminase activity (By similarity). Acts as a regulator of innate immunity in macrophages by modulating the purine nucleotide metabolism, thereby regulating the metabolic function and

bioenergetic state of macrophages (PubMed:<a href="http://www.uniprot.org/citations/27478939" target="\_blank">27478939</a>, PubMed:<a href="http://www.uniprot.org/citations/31978345" target="\_blank">31978345</a>). Enables a purine nucleotide cycle between adenosine and inosine monophosphate and adenylosuccinate that prevents cytoplasmic acidification and balances the cytoplasmic- mitochondrial redox interface (PubMed:<a href="http://www.uniprot.org/citations/31978345" target="\_blank">31978345</a>). The purine nucleotide cycle consumes aspartate and releases fumarate in a manner involving fatty acid oxidation and ATP-citrate lyase activity (PubMed:<a href="http://www.uniprot.org/citations/31978345" target="\_blank">31978345</a>). Participates in pattern recognition receptor-induced cytokines in macrophages: associates with the NOD2-signaling complex and promotes optimal NOD2-induced signaling, cytokine secretion and bacterial clearance (By similarity). Localizes to the endoplasmic reticulum upon PRR stimulation of macrophages and associates with endoplasmic reticulum-stress sensors, promoting the endoplasmic reticulum unfolded protein response (UPR) (By similarity). Does not show laccase activity (By similarity).

#### Cellular Location

Cytoplasm. Nucleus. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q8IV20}. Peroxisome {ECO:0000250|UniProtKB:Q8IV20}. Note=Upon stimulation of the pattern- recognition receptor (PRR) NOD2, localizes to the endoplasmic reticulum. {ECO:0000250|UniProtKB:Q8IV20}

#### Tissue Location

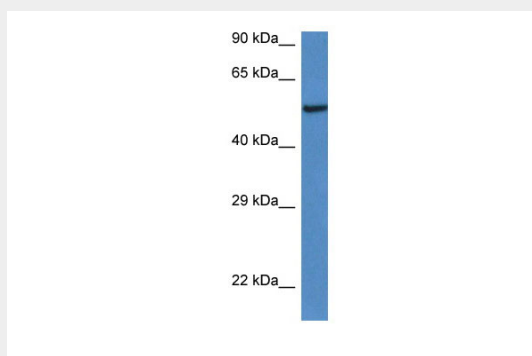
Predominantly expressed in myeloid cells (PubMed:30510070). Highly expressed in primary macrophages and dendritic cells sorted from the peritoneum or spleen, respectively (at protein level) (PubMed:30510070).

### 9030625A04Rik antibody - C-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### 9030625A04Rik antibody - C-terminal region - Images



WB Suggested Anti-9030625A04Rik Antibody Titration: 1.0 µg/ml  
Positive Control: Mouse Heart

## **9030625A04Rik antibody - C-terminal region - References**

Carninci P., et al. Science 309:1559-1563(2005).