

# C13orf31 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13513

## Product Information

Application	WB
Primary Accession	<a href="#">Q8IV20</a>
Other Accession	<a href="#">NM_153218</a> , <a href="#">NP_694950</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47780

## Additional Information

Gene ID	144811
Alias Symbol	DKFZp686D11119, FLJ38725, C13orf31, RP11-5G9.2
Other Names	Laccase domain-containing protein 1, LACC1, C13orf31
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-C13orf31 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	C13orf31 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Name	LACC1 {ECO:0000303 PubMed:25220867, ECO:0000312 HGNC:HGNC:26789}
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 (PubMed: <a href="#">31978345</a> ). Also catalyzes the phosphorolysis of S-methyl-5'-thioadenosine into adenine and S-methyl-5-thio-alpha-D-ribose 1-phosphate (PubMed: <a href="#">31978345</a> ). Also has adenosine deaminase activity (PubMed: <a href="#">31978345</a> ). 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="#">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:[31978345](#)). The purine nucleotide cycle consumes aspartate and releases fumarate in a manner involving fatty acid oxidation and ATP-citrate lyase activity (PubMed:[31978345](#)). Participates in pattern recognition receptor (PRR)-induced cytokines in macrophages: associates with the NOD2-signaling complex and promotes optimal NOD2-induced signaling, cytokine secretion and bacterial clearance (PubMed:[28593945](#), PubMed:[31875558](#)). 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) (PubMed:[31875558](#)). Does not show laccase activity (PubMed:[27959965](#), PubMed:[31978345](#)).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q8BZT9}. Nucleus {ECO:0000250|UniProtKB:Q8BZT9}. Endoplasmic reticulum. Peroxisome. Note=Upon stimulation of the pattern- recognition receptor (PRR) NOD2, localizes to the endoplasmic reticulum.

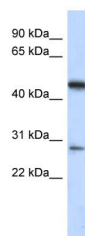
#### Tissue Location

Ubiquitously expressed, with higher expression levels in immune-related tissues such as lymph nodes and spleen (PubMed:27959965). Expressed in both intestinal and peripheral myeloid- derived cells (PubMed:28593945).

## References

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Dunham A.,et al.Nature 428:522-528(2004).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

## Images



WB Suggested Anti-C13orf31 Antibody Titration: 0.2-1  
µg/ml  
ELISA Titer: 1:1562500  
Positive Control: Human Lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.