

**phospho-NLRC4(Ser-533) Antibody**  
**Purified Rat Monoclonal Antibody**  
**Catalog # AO2202a****Specification****phospho-NLRC4(Ser-533) Antibody - Product Information**

Application	FC, ICC, E
Primary Accession	<a href="#">Q3UP24</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	116.7kDa KDa

**Description**

NLRC4 is a cytosolic NOD (nucleotide binding and oligomerization domain)-like receptor (NLR) that can trigger inflammasome formation in response to bacterial flagellin, an immunodominant antigen in the intestine.

**Immunogen**

Synthesized peptide of mouse phospho-NLRC4(Ser-533) (AA: 525-538) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**phospho-NLRC4(Ser-533) Antibody - Additional Information**

**Gene ID** 268973

**Other Names**

NLR family CARD domain-containing protein 4, Caspase recruitment domain-containing protein 12, Ice protease-activating factor, Ipaf, Nlr4, Card12, Ipaf

**Dilution**

FC~~1/200 - 1/400

ICC~~N/A

E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

phospho-NLRC4(Ser-533) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**phospho-NLRC4(Ser-533) Antibody - Protein Information**

**Name** Nlrc4

**Synonyms** Card12, Ipaf

**Function**

Key component of inflammasomes that indirectly senses specific proteins from pathogenic bacteria and fungi and responds by assembling an inflammasome complex that promotes caspase-1 activation, cytokine production and macrophage pyroptosis. The NLRC4 inflammasome is activated as part of the innate immune response to a range of intracellular bacteria. It senses pathogenic proteins of the type III secretion system (T3SS) and type IV secretion system (T4SS) such as flagellin and PrgJ-like rod proteins via the Naip proteins (Naip1, Naip2 or Naip5): specific Naip proteins recognize and bind pathogenic proteins, driving assembly and activation of the NLRC4 inflammasome. The NLRC4 inflammasome senses Gram-negative bacteria such as *L.pneumophila* and *P.aeruginosa*, enteric pathogens *S.typhimurium* (*Salmonella*) and *S.flexneri* and fungal pathogen *C.albicans*. In intestine, the NLRC4 inflammasome is able to discriminate between commensal and pathogenic bacteria and specifically drives production of interleukin-1 beta (IL1B) in response to infection by *Salmonella* or *P.aeruginosa*. In case of *L.pneumophila* infection the inflammasome acts by activating caspase-7.

**Cellular Location**

Cytoplasm, cytosol. Inflammasome

**Tissue Location**

Expressed by intestinal mononuclear phagocytes.

**phospho-NLRC4(Ser-533) Antibody - 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](#)