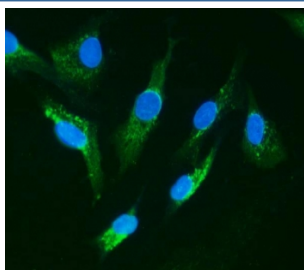


## IRAK1 Antibody (RQ4063)

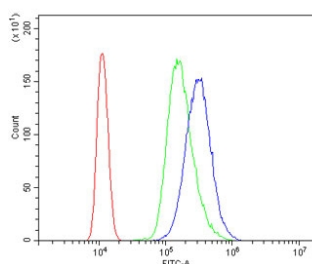
Catalog No.	Formulation	Size
RQ4063	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P51617
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This IRAK1 antibody is available for research use only.



Immunofluorescent staining of FFPE human A549 cells with IRAK1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human U937 cells with IRAK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IRAK1 antibody.

kDa  
180-  
130-  
95-  
72-  
55-  
43-  
34-  
26-  
17-

Western blot testing of human HepG2 cell lysate with IRAK1 antibody at 0.5ug/ml.  
Predicted molecular weight ~76 kDa.

## Description

Interleukin-1 receptor-associated kinase 1, also called IRAK1, is an enzyme that in humans is encoded by the IRAK1 gene. By radiation hybrid analysis, this gene is mapped to chromosome Xq28. Serine/threonine-protein kinase plays a critical role in initiating innate immune response against foreign pathogens. This gene involved in Toll-like receptor (TLR) and IL-1R signaling pathways. This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B.

## Application Notes

Optimal dilution of the IRAK1 antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein corresponding to amino acids M377-D479 was used as the immunogen for the IRAK1 antibody.

## Storage

After reconstitution, the IRAK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.