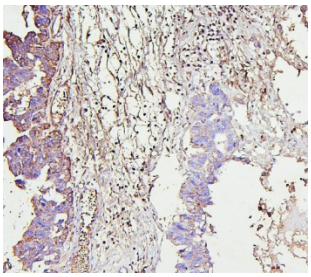
IRAK1 Antibody (RQ5587)

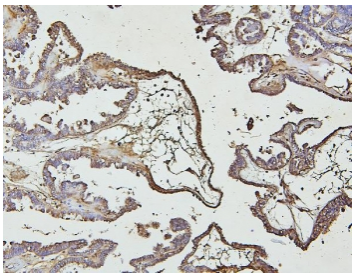
Catalog No.	Formulation	Size
RQ5587	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

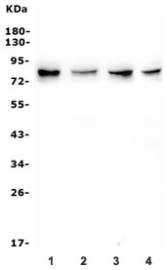
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P51617
Applications	Western blot: 0.25-0.5ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml
Limitations	This IRAK1 antibody is available for research use only.



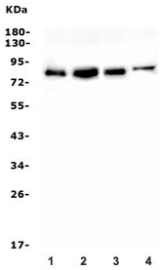
IHC staining of FFPE human ovarian cancer with IRAK1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



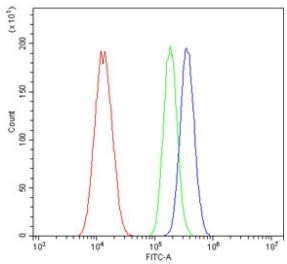
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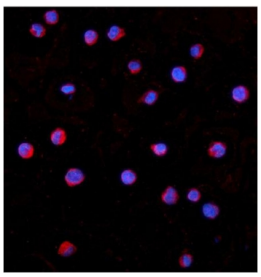
Western blot testing of human 1) PC-3, 2) U-2 OS, 3) HEK293 and 4) K562 cell lysate with IRAK1 antibody. Predicted molecular weight 68-76 kDa.



Western blot testing of 1) rat brain, 2) rat liver, 3) mouse brain and 4) mouse Neuro-2a lysate with IRAK1 antibody. Predicted molecular weight 68-76 kDa.



Flow cytometry testing of human A549 cells with IRAK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IRAK1 antibody.



Immunofluorescent staining of FFPE human K562 cells with IRAK1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

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

Amino acids NRNARVADLVHILTHLQLLRARD were 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.

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