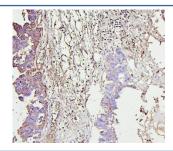


# **IRAK1 Antibody (RQ5587)**

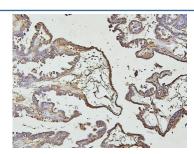
| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| RQ5587      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

### **Bulk quote request**

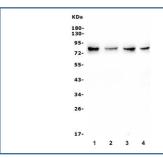
| Availability       | 1-3 business days  |
|--------------------|--|
| Species Reactivity | Human, Mouse, Rat  |
| Format             | Antigen affinity purified  |
| Clonality          | Polyclonal (rabbit origin)   |
| Isotype            | Rabbit IgG   |
| Purity             | Affinity purified  |
| 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.  |



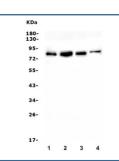
IHC staining of FFPE human ovarian cancer with IRAK1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



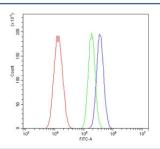
IHC staining of FFPE human ovarian cancer with IRAK1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



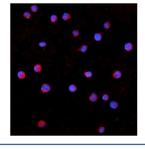
Western blot testing of human 1) PC-3, 2) U-2 OS, 3) HEK293 and 4) K562 cell lysate with IRAK1 antibody. Predicted molecular weight 68-76 kDa.



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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