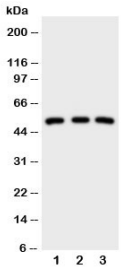
IRAK4 Antibody (R31042)

Catalog No.	Formulation	Size
R31042	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	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9NWZ3
Applications	Western Blot : 0.5-1ug/ml
Limitations	This IRAK4 antibody is available for research use only.



Western blot testing of IRAK antibody; Lane 1: HeLa; 2: U87; 3: MCF-7 cell lysate. Expected/observed size ~52KD

Description

Interleukin-1 receptor-associated kinase 4, also called REN64, is an IRAK family protein kinase involved in signaling innate immune responses from Toll-like receptors. It also supports signaling from T-cell receptors. Scott(2002) mapped the gene to chromosome 12 based on similarity between the REN64 sequence(GenBank AF155118) and a chromosome 12 clone(GenBank AC093012). Functional analysis by Li et al.(2002) determined that IRAK4, like IRAK1 and Pelle, has auto- and cross-phosphorylation kinase activity. Precipitation and binding analyses showed weak interaction between IRAK4 and IRAK1, but IRAK4 did not interact with other IRAK family members. Overexpressed protein interacted with MYD88 and TRAF6 and activated mitogen-activated protein kinase (MAPK) and nuclear factor kappa-B (NFKB)

pathways.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the IRAK4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Interleukin-1 receptor-associated kinase 4 (DDRYNQFHIRRFEAL) was used as the immunogen for this IRAK4 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the IRAK4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.