

CoraLite® Plus 488-conjugated IRAK1 Recombinant monoclonal antibody

Catalog Number: CL488-86068-3

Basic Information

Catalog Number:

CL488-86068-3

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0728

GenBank Accession Number:

BC014963

GeneID (NCBI):

3654

UNIPROT ID:

P51617

Full Name:interleukin-1 receptor-associated
kinase 1**Calculated MW:**

77 kDa

Observed MW:

68-80 kDa

Purification Method:

Protein A purification

CloneNo.:

250691C5

Recommended Dilutions:

IF/ICC: 1:50-1:500

**Excitation/Emission maxima
wavelengths:**

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, rat

Positive Controls:

IF/ICC : HeLa cells,

Background Information

Interleukin-1 receptor-associated kinases (IRAKs) are a unique family of death domain containing protein kinases that play a key role in initiating innate immune response against foreign pathogens. They are involved in Toll-like receptor (TLR) and interleukin-1 receptor (IL-1R) signaling pathways. IRAK1 is the first member of this kinase family. Upon ligand binding to TLR/IL-1R, IRAK1 is recruited by MYD88 to the receptor-signaling complex, the association leads to IRAK1 phosphorylation by IRAK4 and subsequent autophosphorylation and kinase activation. Hyperphosphorylated IRAK1 then disengages from the receptor complex, and forms a cytosolic IRAK1-TRAF6 complex. TRAF6 then interacts with TAK and TAB, resulting in eventual activation of the NF- κ B and MAPK pathways. Phosphorylated IRAK1 also undergoes ubiquitin-mediated degradation or sumoylation, which results in nuclear translocation and transcriptional activation of inflammatory target genes. (PMID: 17890055; 12620219)

Storage

Storage:

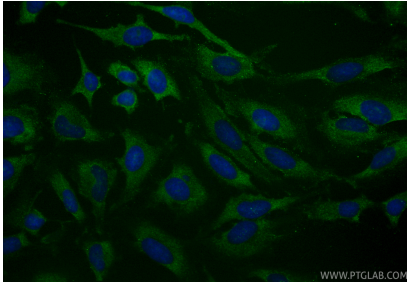
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Coralite® Plus 488 IRAK1 antibody (CL488-86068-3, Clone: 250691C5) at dilution of 1:200.