Recombinant IRAK1 Monoclonal Antibody

catalog number: **AN301855L**

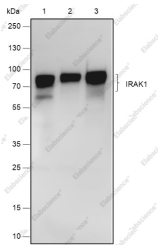
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human IRAK1 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C121477
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:200-1:1000
IHC	1:100-1:1000

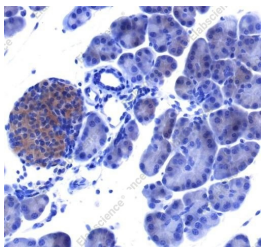
Data



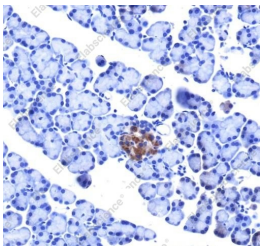
Western Blot with IRAK1 Monoclonal Antibody at dilution of 1:1000. Lane 1: HEK-293, Lane 2: HeLa,Lane 3: K562

Observed-MW:80 kDa

Calculated-MW:77 kDa



Immunohistochemistry of paraffin-embedded Mouse pancreas using IRAK1 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Rat pancreas using IRAK1 Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Toll-free: 1-888-852-8623
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IRAK1 is the first member of the death domain containing protein kinase family 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. 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. Hyper-phosphorylated 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-κB and MAPK pathways. Phosphorylated IRAK1 also undergoes ubiquitin-mediated degradation or sumoylation, which results in nuclear translocation and transcriptional activation of inflammatory target genes.

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