# IRAK-4 Mouse mAb

CatalogNo: YM0380

## Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Monkey

Applications
- WB,IHC,IF,Flow Cyt,ELISA

MW
- 52kD (Calculated)

## Recommended Dilution Ratios

**WB 1:500-1:2000**
**IHC 1:200-1:1000**
**Flow Cyt 1:200-1:400**
**ELISA 1:10000**
**IF 1:50-200**

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | Purified recombinant fragment of human IRAK-4 expressed in E. Coli. |
| **Specificity** | IRAK-4 Monoclonal Antibody detects endogenous levels of IRAK-4 protein. |

## Target Information

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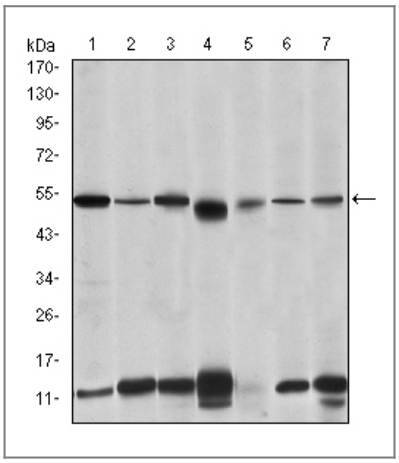
|---|---|
| **Gene name** | IRAK4 |
| **Protein Name** | Interleukin-1 receptor-associated kinase 4 |

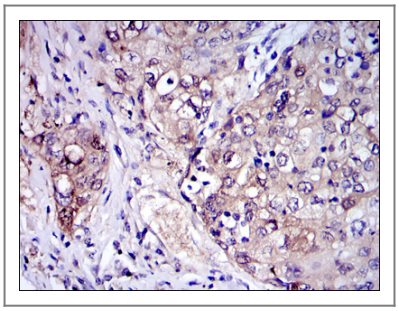
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 51135; | Q8TDF7; |

| | |
|---|---|
| **Cellular Localization** | extracellular space,intracellular,nucleus,cytoplasm,cytosol,plasma membrane,endosome membrane, |
| **Tissue specificity** | Brain,Spleen,Uterus, |
| **Function** | Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,Disease:Defects in IRAK4 are the cause of IRAK4 deficiency [MIM:607676]. IRAK4 deficiency causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children.,Disease:Defects in IRAK4 are the cause of recurrent isolated invasive pneumococcal disease type 1 (IPD1) [MIM:610799]. Recurrent invasive pneumococcal disease (IPD) is defined as two episodes of IPD occurring at least 1 month apart, whether caused by the same or different serotypes or strains. Recurrent IPD occurs in at least 2% of patients in most series, making IPD the most important known risk factor for subsequent IPD.,Function:Required for the efficient recruitment of IRAK1 to the IL-1 receptor complex following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Phosphorylates IRAK1.,online information:IRAK4 mutation db,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily.,similarity:Contains 1 death domain.,similarity:Contains 1 protein kinase domain.,subunit:IL-1 stimulation leads to the formation of a signaling complex which dissociates from the IL-1 receptor following the binding of PELI1. Interacts with IL1RL1., |

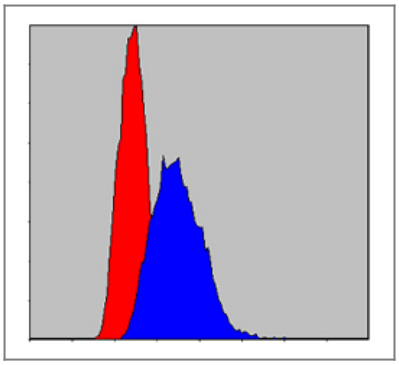
## Validation Data



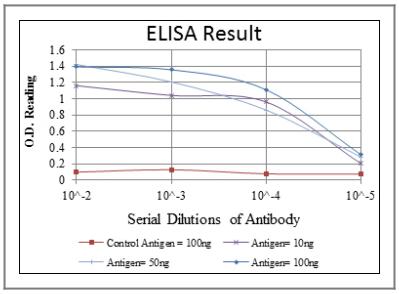

Western Blot analysis using IRAK-4 Monoclonal Antibody against THP-1 (1), HeLa (2), K562 (3), MCF-7 (4), RAW264.7 (5), Jurkat (6) and Cos7 (7) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer tissues with DAB staining using IRAK-4 Monoclonal Antibody.



Flow cytometric analysis of Hela cells using IRAK-4 Monoclonal Antibody (blue) and negative control (red).




## Contact information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|---|---|
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Please scan the QR code to access additional product information:
**IRAK-4 Mouse mAb**