

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

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

Clonality Monoclonal

Immunogen Information

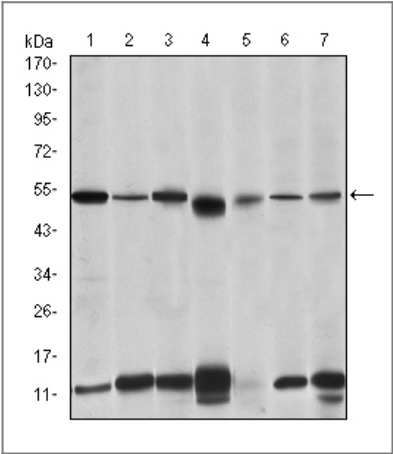
Immunogen Purified recombinant fragment of human IRAK-4 expressed in E. Coli.

Specificity IRAK-4 Monoclonal Antibody detects endogenous levels of IRAK-4 protein.

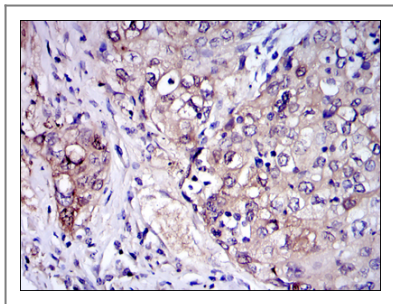
Target Information

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.,		

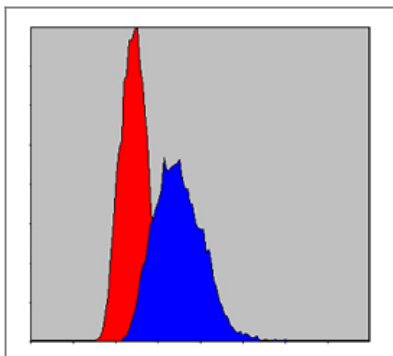
| Validation Data



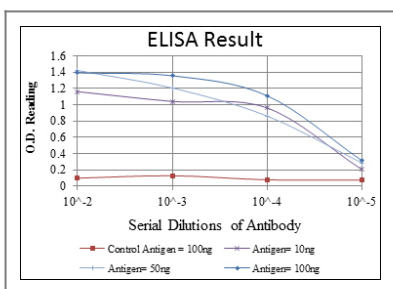
Western Blot analysis using IRAK-4 Monoclonal Antibody against THP-1 (1), HeLa (2), K562 (3), MCF-7 (4), RAW264.7 (5), Jurkat (6) and Cos7 (7) cell lysate.



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

For Research Use Only. Not for Use in Diagnostic Procedures.

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