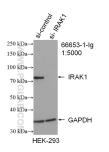
For Research Use Only

IRAK1 Monoclonal antibody Catalog Number:66653-1-Ig Featured Product 4 Publications

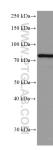


Basic Information	Catalog Number: 66653-1-lg			Purification Method: Protein A purification CloneNo.: 1H10A7	
	Size:				
	150ul , Concentration: 1440 ug/ml by				
	Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;			Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000	
	Source: Mouse	Full Name: interleukin-1 receptor-associated kinase 1 Calculated MW: 77 kDa			
	Isotype:				
	IgG2a Immunogen Catalog Number: AG0728				
		Observed MW: 80 kDa			
Applications	Tested Applications:		Positive Controls:		
	WB, IHC, ELISA		WB : HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cell		
	Cited Applications: IHC, IF		ung cancer tissue,		
	Species Specificity: Human				
	Cited Species: human				
	Note-IHC: suggested antigen re TE buffer pH 9.0; (*) Alternativ retrieval may be performed wi buffer pH 6.0	ely, antigen			
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 the 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-kB 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)				
Notable Publications	Author Pub	med ID Journa	ı	Application	
	Gang Xu 3360	64485 Cell M	ol Immunol	IF	
		78859 J Cell	Biol	IF	
	Xiaoli Zhang 376	76254 Biol Re	prod	IHC	
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50° Aliquoting is unpecessary for -20°C st	, % glycerol pH 7.3.			
Storage *** 20ul sizes contain 0.1% BSA	Store at -20°C. Stable for one year after Storage Buffer:	, % glycerol pH 7.3.			

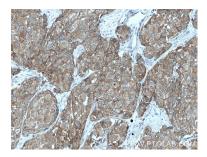
Selected Validation Data



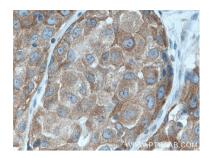
WB result of IRAK1 antibody (66653-1-lg; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-IRAK1 transfected HEK-293 cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 66653-1-1g (IRAK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66653-1-1g (IRAK1 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66653-1-1g (IRAK1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).