

For Research Use Only

IHCeasy IRAK1 Ready-To-Use IHC Kit

Catalog Number: KHC2304

General Information

Sample type: FFPE tissue Cited sample type: Reactivity: Human, Mouse, Rat Cited Reactivity: Assay type: Immunohistochemistry Primary antibody type: Rabbit Polyclonal Secondary antibody type: Polymer-HRP-Goat anti-Rabbit

Kit Component

Size	Concentration
100 mL	50×
100 mL ×2	20×
5 mL	RTU
5 mL	RTU
5 mL	RTU
0.2 mL	RTU
4 mL	RTU
5 mL	RTU
5 mL	RTU
5 mL	RTU
1 slide (Optional)	FFPE
1 Сору	
1 Сору	
	100 mL 100 mL ×2 5 mL 5 mL 5 mL 0.2 mL 4 mL 5 mL 5 mL 5 mL 5 mL 1 slide (Optional) 1 Copy

Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

Background

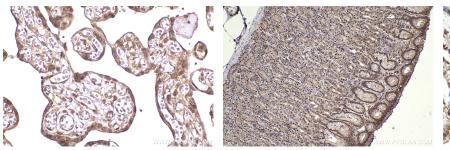
Interleukin-1 receptor-associated kinases (IRAKs) are a unique family of death domain containing protein kinases that play a key role in initiating innate immune response against foreign pathogens. They are involved in Toll-like receptor (TLR) and interleukin-1 receptor (IL-1R) signaling pathways. IRAK1 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. 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- * 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.

Synonyms

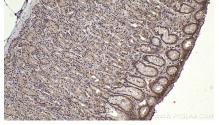
pelle, IRAK-1, IRAK 1, IRAK, Interleukin-1 receptor-associated kinase 1

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

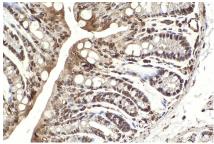
Selected Validation Data



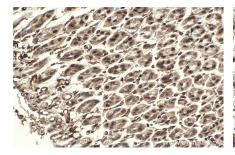
Immunohistochemical analysis of paraffinembedded human placenta tissue slide using KHC2304 (IRAK1 IHC Kit).



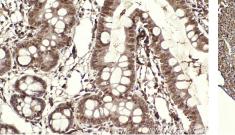
Immunohistochemical analysis of paraffinembedded human stomach tissue slide using KHC2304 (IRAK1 IHC Kit).



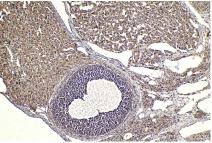
Immunohistochemical analysis of paraffinembedded mouse colon tissue slide using KHC2304 (IRAK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse stomach tissue slide using KHC2304 (IRAK1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat intestin tissue slide using KHC2304 (IRAK1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat ovary tissue slide using KHC2304 (IRAK1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat stomach tissue slide using KHC2304 (IRAK1 IHC Kit).